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COPS-Consultant Report

Canada

Employment Enhancements To the Informetrica Models Final Report

Prepared by:
Informetrica Limited

Canadian Occupational Projection System (COPS)
Employment and Immigration

July 31, 1986

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WH-3-669E

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90-00801/

This report was prepared by Informetrica Limited in Ottawa for the Labour Market Outlook and Structural Analysis Branch of Employment and Immigration Canada (E.I.C.) in Ottawa. The opinions expressed are those of Informetrica Limited and do not necessarily reflect those of the Branch, E.I.C. or of the Government of Canada.

Foreword

Employment projections have become a critical part of planning for both the public and private sectors. For several years, Informetrica has provided employment forecasts to the Canadian Occupational Projection System (COPS) for an industrial breakout derived from the Labour Force Survey (LFS). For goods-producing industries, reliable data were available only for the divisions of the 1970 SIC (i.e. Agriculture, Forestry, Fishing, Manufacturing, etc.). The industrial dimension of the employment forecasts has been extended to some 60 industries, nationally and provincially. Nationally, the new equations provide an added dimension to The Informetrica Model (TIM). For the provinces and territories, the new equations have been added to Informetrica's Regional-Industrial Model (RIM).

Informetrica is grateful to COPS for its support of the project and thanks especially Messrs. Serge Bertrand and Kim Boydell for their assistance and patience.

This report summarizes the development of the data and equation estimates and discusses the results of preliminary model testing. Chapter I describes the concepts underlying the I/O database used for the national estimates. Chapter II provides a summary of the national model extensions. Chapter III outlines the development of the regional database and provides a summary of the regional estimates.

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CHAPTER I

NATIONAL DATABASE

I.1 INTRODUCTION

The purpose of this chapter is to summarize the development of the database used for national estimates. The database is developed from estimates provided by I/O Division as part of their productivity estimates. This database is based on the most detailed possible sources, generally establishment surveys or censuses which are available nationally and provincially, including the territories. This offers two conceptual advantages. First, the employment data most closely parallels the estimates of industry output, the key explanatory variable in most formulations. Secondly, the possibility exists to develop estimates for the territories as well as the provinces.

I.2 GENERAL CHARACTERISTICS

The focus of the I/O employment database is on the use of a concept of employment which is as close as possible to the conceptual basis of the measure of industry Gross Domestic Product (GDP). Where possible, data from the annual establishment censuses have been used. For the services sectors, the employment survey (ES1,ES2), supplemented by the Labour Force Survey (LFS) were the prime data source prior to 1983. The utility of this database has been enhanced by the implementation by Statistics Canada of the new Survey of Employment, Payroll and Hours (SEPH) with expanded coverage.

It should be noted that the employment series, as provided by I/O Research, have been adjusted to combine the business, personal and government sectors to appropriately reflect the full range of industrial activities. Employment associated with own-account construction has been reallocated to suit the treatment in the GDP accounts.

The database has been developed on the basis of the 1970 SIC. It is currently understood that I/O Division will be releasing a database consistent with the 1980 SIC. This will materially simplify the evolution of this model to reflect the planned re-estimation of TIM that is required by the rebasing of the National Accounts to 1981.

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The remainder of this chapter provides a more detailed summary of the sources of data and a comparison with the available LFS data.

1.3 THE I/O DATABASE

The I/O database used in this documentation consists of the data received from Statistics Canada, disaggregated into the business, personal and government sectors. The principal series of each sector, total employment, consists of total paid employment plus other-than-paid employment, or, in terms of another disaggregation, own-account construction plus "sector" paid employment. In order to compare the I/O database with the LFS database, the sectors were aggregated to correspond to the Regional Industrial Model (RIM) taxonomy.

The data are, in general, based on the seven sources listed below. However, it should be noted that these sources represent the catalogue version of many surveys and data sources. The I/O data is produced, in many cases, by using special tabulations of these surveys or by using data that are available in more detail on tape and summarized in the publications.

1. Estimates of Employees by Province and Industry (Cat. 72.516,72.708) (Estimates of Employees), discontinued after March 1983.

2. Employment Earnings and Hours,(Cat 72.002) (ES1), discontinued after March 1983.

3. Manufacturing Industries of Canada: National and Provincial Areas (Cat 31.203), a summary publication based on the Census of Manufacturers.

4. General Review of the Mineral Industries (Cat 26.201).

5. Contract Drilling for Petroleum and Other Contract Drilling (Cat 26.207), discontinued after 1976. Other Contract Drilling however is continued in 26.201.

6. The Labour Force Survey (71.001), based on the 1970 SIC where used within the I/O framework.

7. The Decennial Census 1961,1971.

These sources are used in conjunction with each other or alone to provide total employees for an industry that include all paid workers, other-than-paid workers, and multiple job holders. The combination of sources for each industry is documented below. The main focus of the I/O database is the use of establishment surveys, sources 1-5 above, supplemented with the LFS, the decennial census, and other surveys where necessary.

There are two main areas of discontinuity in the database that should be noted. The first concerns the addition by the I/O Division of multiple job holders estimates, incorporated since 1975 from the LFS database, but not linked back to 1961. The change in coverage from those 14 years of age and over, to

those 15 years of age and over, was however, linked back to 1961. The second concerns revisions in "Estimates of Employees" in 1977, which was brought back to 1975 to be consistent with the labour force discontinuity, and linked back to 1961.

1.4 THE LABOUR FORCE SURVEY (LFS)

The Labour Force Survey is based on the 1980 SIC as of January 1, 1984. The basic methodology used is to survey a sample of households within specified geographical areas and code individual respondents as to occupation, firm name and type of business. The samples are then weighted by coefficients to provide an estimate of total employment.

1.5 COMPARISON BETWEEN THE LFS DATABASE AND THE I/O DATABASE

Comparing the LFS database and the I/O database, differences arise in most industries for the following reasons:

1. The LFS database is based on a survey of households where respondents are coded as to occupation and industry. The I/O database is based, in most cases, on surveys of establishments and where an establishment survey is not available the LFS or the decennial census is used. Therefore, one would not expect the data to be the same due to differences in sampling techniques, and the response of those surveyed.

2. The current LFS data is based on the 1981 census weight; however the I/O data has not yet been adjusted to reflect this new weighting, and is based on the 1976 census.

3. Further, the I/O database includes multiple job holders implicit in establishment surveys used and included in the version of the LFS used by the I/O Division, but not included in the LFS total employed as per the publication.

4. Further differences arise in the treatment of own-account construction. In the I/O database, own-account construction is rerouted to the construction industry. In the LFS, own-account construction employment is, in most cases, included in the industry actually doing the work. The database used in this analysis has been adjusted to allocate own-account construction employment to the industry actually doing the work.

5. The data are composed for the I/O database by adding paid workers to other-than-paid and, where necessary multiple job holders. The LFS data also include paid and other-than-paid workers, and, in fact, is the source of other-than-paid estimates for the I/O database in most industries. However, while the LFS does provide data after 1975 on multiple job holders, this is not included in its estimate of total employed.

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6. Government employees are also treated differently in the two databases. The I/O database allocates government employment within each industry to the government sector; that is when compared with the LFS, the I/O data will underestimate the total number employed in an industry in which government employees are active. To provide a more consistent approach with the LFS data and to RDP in The Informetrica Model (TIM) we have added those designated to the government and personal sector back to the corresponding industries. Further the LFS database does not include military personnel while the I/O does. We have allocated military personnel to the administration category.

1.6 INDUSTRY SOURCES AND DIFFERENCES

1.6.1 Agriculture And Fishing

The I/O data is taken from the LFS, which includes paid, other-than-paid workers, and multiple job holders (after 1975). The LFS is, in fact, the only source for fishing and agriculture. The reason for having multiple job holders included in the LFS data received is that the I/O database, being based on establishment surveys for the majority of industries, will automatically capture multiple job holders as they appear on the employer's payroll. Therefore, to provide consistency with the establishment surveys, multiple job holders are added where the LFS is used. The main difference between LFS and I/O is multiple job holders.

1.6.2 Forestry

The I/O database uses Estimates of Employees by Province and Industry for paid workers; other-than-paid are taken from the LFS. The main difference between the I/O data and the LFS are the two types of surveys used.

1.6.3 Mining

Mining employment in the I/O database is based on different surveys. Paid workers are taken from General Review of the Mineral Industries. The component of incidental services to mining consists of three parts: (1) contract drilling for petroleum, (2) other contract drilling, and (3) miscellaneous services incidental to mining. The sum of contract drilling for petroleum and other contract drilling was reported in Cat. 26-207 (Contract Drilling for Petroleum and Other Contract Drilling) up to 1976. From 1977 and onwards, other contract drilling has been reported in Cat. 26-201 (General Review of the Mineral Industries) while the survey for contract drilling for petroleum was discontinued. This discontinued survey is now replaced using various sources such as wages and salaries (adjusted for CPI). Adjustments are also made to the oil and gas sector for the oil sands industry. Miscellaneous services are calculated by interpolation between the last two decennial censuses (1961 and 1971). other-than-paid employees are interpolated between decennial census and from 1972 onwards a moving average of the LFS is used, as a control total.

The LFS on the other hand relies on its survey of the industry. It should be noted that it has been criticized in the past for not providing adequate coverage at the provincial level.

1.6.4 Construction

Data for paid workers for the I/O database are taken from Estimates of Employees by Province and Industry, minus other construction related to electric power which is rerouted to electric utilities. Other-than-paid workers are taken from the LFS. One important difference to be noted for construction employment for the I/O data is that the construction performed in various industries under own account is rerouted back to construction. As a result total employment in construction for the I/O data will exceed that shown in the LFS data. As well, those industries which are the source of employment will show a lower level in employment.

1.6.5 Manufacturing

I/O data for paid and other-than-paid workers, for manufacturing, come from a "MAPID" tape, for the publication "Manufacturing Industries of Canada: National and Provincial Areas" a summary annual publication based on the Census of Manufacturers. The I/O Division then adjusts this for improved coverage between 1971-77. Other-than-paid estimates are found in this source under working owners and partners. The use of this source provides a greater disaggregation of the data as compared to "Estimates of Employees". Differences between this survey and the LFS are that this survey asks respondents for the average month-end employment, as compared to the LFS which is based on a specific point in time. However, the Census of Manufacturers, for smaller reporting firms (for which the definition varies to ensure adequate coverage) uses predetermined rules for the imputation of working owners and partners as opposed to direct surveying and also, for smaller firms, the number of paid employees is calculated from financial information. Further differences will occur due to problems in the coverage of the business register in its failure to pick up all new business. As well, the LFS may have problems in misclassification of respondents in terms of multi-establishment firms.

1.6.6 Services

Services are calculated in the I/O database by taking the total employed in services from "Estimate of Employees" and adding other-than-paid workers from the LFS. Disaggregation within the services group is performed in general as follows: education, hospitals, and religious services are taken from "Estimates of Employees"; health services are based on the small firm survey (those establishments with less than twenty employees); the balance of the services are, in general, calculated using the decennial census.

1.6.7 Trade

The I/O data is taken from the Estimates of Employees by Province and Industry for paid workers, other-than-paid is taken from the LFS. Also the LFS is used to split out retail and wholesale trade for paid workers and the 1976 Census of Merchandising is used to split out other-than-paid.

1.6.8 Finance, Insurance And Real Estate

The I/O database uses the Estimates of Employees for paid workers and the LFS for other-than-paid. Further disaggregation is based on the Employment, Earnings and Hours Survey as well as other surveys.

1.6.9 Transportation, Communication And Other Utilities

The I/O database uses the Estimates of Employees by Province and Industry. Electric power, gas and water are then subtracted using the Employment Earnings and Hours Survey, done under the assumption that this larger firm survey represents total employed. Other-than-paid is based on the LFS. Further disaggregations are based on the decennial census and the larger firm survey, ES1 (firms with twenty or more employees) or individual surveys for specific industries.

1.6.10 Transportation And Storage

The methodology is the same as transportation, communication and other utilities with highway and bridge maintenance, from the ES1 survey, being subtracted out.

1.6.11 Utilities

The methodology is the same as transportation, communication and other utilities. However, activity termed, "other construction", and related to electric power, is included here in electric utilities.

1.6.12 Administration

The primary source for the I/O database is the Estimates of Employees; however, included in this classification are defence workers, other than military personnel, as well as military personnel. The source for military personnel is the Labour Force Division of Statistics Canada but this data is not included in the LFS data compared here. This then represents an important difference between the two databases.

1.6.13 Total Employment

Total employment will therefore differ between the LFS and the I/O databases due to the different surveys and techniques used.

1.7 A COMPARISON OF THE LFS SURVEY TO THE ES SURVEY

The ES survey will differ in a number of areas when compared with the LFS for many of the reasons already discussed:

1. The ES1 (Employment, Earnings and Hours, up to March 1983) survey is an establishment survey and, as such, it relies on the completeness and accuracy of the business register. Revisions in terms of new businesses are included in following years but data are not adjusted for preceding years, even though revisions may be indicated. Further, the ES1 coverage includes only those firms of 20 or more employees, although this is subject to adjustment if coverage is deemed to warrant it, or may vary as those firms surveyed may have fluctuating employment levels that the process cannot pick up in time. Working owners and partners of unincorporated businesses are not included in the survey. The LFS survey on the other hand attempts to cover all those employed whether working owners and partners or not (other-than-paid), however its results rely on the accuracy of those surveyed in terms of coding occupation with a designated industry. The LFS survey is conducted in a defined week of the month for certain geographical areas and overall employment is statistically inferred. The ES1 survey, on the other hand, surveys the last pay period in the month and errors in results are deemed to be non-sampling errors.

2. The Labour Force Survey lists multiple job holders after 1975 but does not include these in the projected totals. Multiple job holders are included in the ES1 survey, as multiple job holders are recorded on employer's payrolls.

3. The level of coverage is also another source of difference. Industries included in the LFS survey, but excluded from the ES1 survey, include agriculture, fishing and trapping, education and related services, religious organizations, health and welfare services, private households, public administration and defence.

The publication "Estimates of Employees By Province and Industry" while an establishment survey and largely based on the ES1 survey, differs from the ES1 survey for several reasons: it surveys firms with fewer than 20 employees, it includes education and related services, hospitals, welfare organizations, religious organizations and private households, commercial services, and civilian defence employees. The survey excludes agriculture and includes fishing and trapping in the national total only. It should be noted here that fishing and trapping and private household services are based on the LFS.

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The small firm survey is based on a monthly mail sample of firms with fewer than 20 employees and as such is subject to sampling errors.

"Estimates of Employees" was discontinued after March 1983 as was the ES1 survey. These two publications have been replaced by the SEPH survey. SEPH includes firms of all sizes, is based on the 1970 version of the Standard Industrial Classification; a mixture of both census and sampling methodologies are used, but SEPH does not include coverage of fishing and trapping, religious organizations and private households.

CHAPTER II

NATIONAL ESTIMATION

This chapter provides an outline of the specification and estimation approach adopted for the national employment equations. Detailed results for all sectors estimated are contained in Appendix B.

In The Informetrica Model (TIM), the concept of an industrial production function is embodied in several sections of the model. In the investment equations, the general specification is developed from an assumption of profit maximization under the constraints of a Cobb-Douglas production function. The investment formation explicitly considers the price of output, the level of capital stock and the price of the capital good, as well as interest rates and changes in output levels. Given this formulation of the investment equation, the demand for labour is most appropriately specified as a labour-requirements formulation in which the demand for labour adjusts towards a desired capital/labour/output balance. This approach is typified by an inverted Cobb-Douglas specification.

In direct estimation of a production function, correlation of output and capital stock with time will often result in the estimation of relatively unreliable coefficient values. One solution to this problem is to invert the production function to solve for employment with a constrained coefficient for the capital stock. This constrained coefficient is usually estimated as the non-labour share of industry GDP. In TIM, this specification has been further elaborated into an adjustment equation. To reflect the assumptions underlying the interindustry (input-output) model imbedded within TIM, the employment equations are usually estimated under the assumption of constant returns to scale.

The general formulation is shown in Figure II-1. Rather than a simple time trend, an alternative measure, the "vintage of capital" is used to reflect the

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The approach outlined here is derived from the treatment in the initial versions of the CANDIDE model. A useful introduction is:

Bodkin, R.G., Tanny, S.M., CANDIDE Model 1.1, Vol.1, CANDIDE Project Paper No. 18, Economic Council of Canada, 1975. See Chapter 12

The general structure of TIM is summarized in:
Description of the Informetrica Model,
Informetrica Limited, 1982.

average year of installation of the capital stock. In general, the "newer" the capital stock, the nearer the vintage estimate of time will be to current time. Although separate estimates are available for both the vintage of nonresidential structures and for machinery and equipment, usually only the latter is used.

Figure II-1
General Formulation

Cobb-Douglas Production Function

$$Q = Ae^{rt} K^{a} E^{b}$$

Q=output
K=capital
E=employment
r=rate of growth of disembodied technical change
t=time or vintage of capital (in an inverted form)

Standard Estimation Form

$$\ln(E/E_{<-1>}) = f(\text{constant}, t, \ln(K*((Q/K)**(a/b))/E_{<-1>})$$

ln=natural logarithms
b=1-a, an assumption of constant returns, is often used
Note: usually "a" is coded as a constant

For this implementation of detailed employment equations, an alternative elaboration was also tried. During recent years, the response of employment to short-run fluctuations in capital and output has appeared to be significantly different. To evaluate this approach, the specification was separated into two separate long- and short-run equations. In the long-run portion, "desired" employment is considered as a function of output, capital stock and trend productivity growth. In the short-run portion, the difference between the "desired" estimate and the actual estimate is explained as a function of short-run movements in output.

The alternative approach, shown in Figure II-2, offers a number of advantages. First, the basic estimate of exogenous productivity change can be set from an analysis of past trends and from assumptions about future technological change. Secondly, the separation of the short- and long-run role of output allows for the selective introduction of differing responses to output expansions and contractions.

The summary of results in Appendix B is displayed in the format used for the actual model creation. The Appendix also contains documentation about the general nomenclature for the variables. Each industry employment category is identified by a three-character prefix which is similar to that used in the Regional-Industrial Model (RIM). The text associated with each equation will identify the sector. All other variables are defined in the most recent issue of the TIM model book.

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Figure II-2
Alternative Estimation Approach

Long-Run Estimation Specification

$$\ln(EL) = f(\text{constant}, \ln(e^{-rt} * K * (QL/K)^{**}(a/b)))$$

EL = long run estimate (i.e. preliminary)
r = chosen by inspection
QL = weighted moving average of Q to smooth short-run variation

Short-Run "Final Estimate"

$$\ln(E/EL) = f(\text{constant}, \ln(E/EL)\langle -1\rangle, QU, QD)$$

Let $V = \ln(Q/Q\langle -1\rangle)$
then
QU=V if V is positive else 0
QD=V if V is negative else 0

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CHAPTER III

PROVINCIAL ESTIMATION

III.1 THE PROVINCIAL DATABASE

In general, the database used for the estimation of the detailed provincial employment equations was developed using the identical methodology to that used by Statistics Canada to create the national data. For manufacturing, the major source was the Census of Manufacturing. Where data cells were available, no further adjustments were made. However, particularly in the smaller provinces, many cells had to be estimated due to confidentiality. The residual of national/provincial employment, not accounted for by known cell values, was allocated to the appropriate industry/year/province cell using published estimates of firm size ranges and other external sources.

For other industries, provincial data series with the best possible correspondence to the national sources were used. For some industries, a specially prepared estimates file from the Labour Force Survey was utilized.

III.2 PROVINCIAL EMPLOYMENT EQUATIONS

A different approach to estimating the regional employment equations was used for the extended set of employment equations than was used for the original version of RIM. In RIM, the provincial share of employment in a specific industry is estimated as a function of the corresponding share of output. In the revised version of the model, employment is a direct function of output. This allows for significant variation over time in the productivity levels among provinces. In both models, the equations would be described as "top-down", since the effect of the variation of capital stock and productivity is captured at the national level. In the initial implementation of RIM, the equations were estimated as pooled regressions. In the initial plan for these model extensions, provision was only made for simple mechanical relative productivity analysis. However, to improve the quality of the analysis, separate regressions were run for each province/industry combination. The general specification was:

$$PL = PY * (b1 + b2 * (ML / MY))$$

where PL = provincial employment in a given industry
PY = output in that industry
ML = national employment in the industry
MY = national output in the industry
b1,b2 = econometrically estimated coefficients

The stochastic equations were rejected if the values of b1 and b2 were such that the equation would have undesirable simulation properties or the t-statistics were unsuitable. If the stochastic equations were rejected, the following artificial equations were implemented:

$$PL = PY * (PL<-1> / PY<-1>) * ((ML / MY)/(ML<-1> / MY<-1>))$$

or

$$PL = PY * (ML / MY)$$

The first equation can be shown to force provincial productivity to grow at the same rate as the national. If the industry does not have a significant history in that region, there will not be any estimates of the regional productivity. In that case, the second equation is used in which provincial productivity level equals the national level.

The primary reason for the regression analysis to produce unacceptable results was anomalies in the data. This occurred primarily in cases where the observed values were quite small. In cases such as this it was not unusual for the implied productivity levels to be substantially different from the national average. Since Ontario and Quebec dominate the national average, most of the unusual productivity levels were found in the smaller provinces. Of course, in some specific industries, such as fishing, one of the "smaller" provinces may dominate the national average.

APPENDIX A

APPENDIX A

INDUSTRIAL GROUPINGS

This appendix lists the industries and appropriate aggregates for which employment equations have been estimated. The three-character identifier shown beside each industrial definition is used as part of the mnemonic in both the national and provincial implementations. In the former, it is used as a prefix. In the latter, the mnemonic begins with the provincial designator (A-O) and is followed by the industry identifier.

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INDUSTRIAL GROUPINGS

Industrial Detail:

AGR	Agriculture	001-021
AGP	Paid agriculture (employment)	
AGO	Other than paid agriculture (employment)	
FOR	Forestry	031-039
FSH	Fishing	041-047
RES	Mining - Total	051-099
RE1	- Metals	051-059
RE2	- Coal	061
RE3	- Petroleum & Gas	064
RE4	- Non-metals	071-087
RE5	- Services	096-099
REN	- Coal and Non-metals	
R24	- RE2+RE4	
CON	Construction	404-421
TSP	Transportation, Communication & Storage	501-548
UTL	Utilities - Total	572-579
UTE	- Electric Power	572
UTG	- Gas	574
UTO	- Water & Other	576-579
TUL	Transportation, Communication & Storage & Utilities	501-579
FIT	Finance, Insurance, Real Estate - Total	701-737
FIN	- Finance	701-737
ADT	Public Administration - Total	902-991
ADF	- Federal - Total	902-909,991
ADP	- Provincial	931
ADM	- Municipal	951
SVC	Services - Total	801-899
SVB	- Business	851-869
SED	- Education	801-809
SHE	- Health & Welfare - Total	821-828
SPH	- Physicians	823-828
SHS	- Hospitals	821-822
SHO	- Accommodation & Food	881-886
SVO	- Other - Total	
SRL	- Religion	831
SRR	- Recreation	841-849
SVM	- Miscellaneous	891-899
SPR	- Private = SHO + SVB + SVO	
SVP	- Personal	871-879
SPV	- Private Households	873
TRD	Trade - Total	602-699
TRW	- Wholesale	602-629
TRR	- Retail	631-699
MAN	Manufacturing - Total	101-399
TOT	TOTAL - All Industries	

Manufacturing Detail:

MAN	Manufacturing - Total	
MFT	- Food - Total	101-109
M02	- Tobacco	151-153
M03	- Rubber	162-165
M04	- Leather	172-179
M05	- Textiles	181-189
M67	- Knitting & Clothing	231-249
M08	- Wood	251-259
M09	- Furniture	261-268
MPT	- Pulp, Paper, etc - Total	271-274
MP1	- Pulp & Paper	271
MP2	- Paper Converters	272-274
M11	- Printing & Publishing	286-289
MMT	- Primary Metals - Total	291-298
M13	- Metal Fabricating	301-309
M14	- Machinery	311-318
MTT	- Transportation Equipment - Total	321-329
MT0	- Motor Vehicles	323-324
MT3	- Parts & Accessories	325
MT4	- Aircraft & Parts	321
MT5	- Railroad Rolling Stock	326
MT6	- Shipbuilding	327
MT7	- Miscellaneous	328,329
MTA	- MT0+MT3	
MTB	- MT5+MT7	
M16	- Electrical Products	331-339
M17	- Non-metallic Minerals	351-359
M18	- Petroleum and Coal	365-369
MCT	- Chemicals - Total	372-379
M20	- Miscellaneous	391-399
MDU	- Durables	
MND	- Nondurables	

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Transportation Detail:

TSP	Transportation, Communication & Storage - Total	
TTT	Transportation - Total	
TTA	- Air	501-502
TTR	- Railway	503
TTP	- Pipeline	515
TTU	- Urban	509
TTM	- Motor & Miscellaneous	506-508,512,516-519
TTW	- Water	504-505
TST	Storage - Total	524,527
TTS	Transportation & Storage	501-519,524-527
TCT	Communication - Total	543-548
TCR	- Radio, TV	543
TCB	- Telephones	544,545
TCP	- Postal	548

APPENDIX B

APPENDIX B

NATIONAL ESTIMATION RESULTS

The purpose of this appendix is to summarize the national estimation results. The OLS (ordinary least squares) estimates for each equation are shown below the equation. Each coefficient is identified as B(n) where "n" is the number of the "beta" in that equation. It should be noted that all distributed lags (shown by <i,j>, i.e. from period i to j) were estimated using the Almon procedure. There is a normalized coefficient shown for each lagged term in the distributed lag. The Students "T" statistic for each coefficient is shown in square brackets ("[") after each coefficient. The adjusted coefficient of multiple correlation (RB2), the average absolute percentage error (AAPE), the standard error of the estimate (S.E.E) and the Durbin-Watson (DW) for the initial regression (not the normalized form) are also shown. All equations are shown in fully normalized form, not in the actual estimation formulation.

The industrial sector is noted by the prefix of each variable. The following elements comprise the general taxonomy of the suffix of the variables:

- VMK - vintage of machinery and equipment capital stock
- NET - final employment estimate
- NHT - preliminary (long-run) employment estimate
- Y - real Gross Domestic Product (RDP 71$)
- CCK - nonresidential structures capital stock
- CMK - machinery and equipment capital stock
- NEN - time

There are some slight anomalies in the variable names. The TIM Model Book provides an exact definition of each variable.

The general format of short-run specification includes the provision for separate treatment of expansions and contractions. This is implemented using a function UDLAG. This function contains 2 arguments. The first is the expression being tested, usually some function of the change in output. The second argument is either 0 or 1. If the second argument is 0, the function returns a zero result if the first argument is negative. If the second argument is 1, the function returns a zero result if the first argument is positive. Otherwise, the function returns the value of the first argument.

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For the long-run formulations in which total factor productivity is used, it is defined in an equation in the format (using food as an example):

```
C ... MFTNEN    MAN-FOOD                EMPLOYMENT TIME VARIABLE
E  16  MFTNEN=MFTNEN<-1>+MFTNER*D(MO1VMK)
```

B.1 HOW TO READ THE MODEL SPECIFICATIONS

In Section II, a full specification of the system of equations constituting the model is presented as a printout of the card input that defined the system to the computer program. To ensure understanding of the specifications, this section contains an explanation of the relevant cards, which have a B, E, F, S or C in column 1, and the operators that specify the equations to the computer program.

B Cards

The first card in each block description has a B, the block number, and a title to identify the block.

E Cards

An equation is identified by a card with an E followed by the equation number and the mnemonic. If an equation description continues for more than one line, a constant (m) in column 1 indicates that it is the m-th descriptive card of the equation.

F Cards

F cards allow the insertion of specific FORTRAN statements at any point in the block where further processing is necessary.

S Cards

S cards allow for the use of the mnemonics in FORTRAN statements. In combination, F and S cards introduce rules into the system of equations. Numerous examples of F and S cards in combination occur in the model code for the introduction of different equations for different time periods.

O Cards

A card with an O in column 1 is used to denote options for the MODGEN compiler.

C Cards

The last type of card has a C in column 1. These comment cards provide descriptive information about the variable being calculated and indicate any rules used in simulations.

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Operators

The general form of the equations in the model can be stated algebraically as:

$$Yi = f(B, Yj, Xa, Yj_{t-1}, Xi_{t-m})$$

or, in the current period, an endogenous variable (Yi) may be a function of estimated coefficients (B), other current-period endogenous variables (Yj), current-period exogenous variables (Xa), and the lagged values of endogenous and exogenous variables (Yj ,Xa).

To specify equations in a way that is acceptable to the computer system, however, we must use functions (operators) and arguments (operands). Operands may be:

1. model mnemonics (e.g., MTOTYK);
2. constant value (e.g., 1.53);
3. B, which represents the value of a coefficient; or
4. expressions (e.g. (1.53+MTOTYK)).

The normal rules of algebra applying to parentheses are observed. The operators used in the equation specification are either monadic -- a function of one argument -- or dyadic -- a function of two arguments, and the syntax of functions may be illustrated as:

Monadic: R = mY

Dyadic: R = XdY,

where m and d are the monadic and dyadic operators respectively, X and Y are the operands, and R is the result.

The monadic operators used in the model are:

Operator	Description
D(Y)	First-difference operator; equivalent to higher-order difference may be coded as nested operators -- i.e., D(D(Y)) is equivalent to $Y_t - 2*Y_{t-1} + Y_{t-2}$,
Q(Y)	Relative change operator; equivalent to

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P(Y)	Percentage change operator; equivalent to $(Y_t - Y_{t-1})/Y_{t-1}$, or Q(Y)*100,
EXP(Y)	Exponentiation; equivalent to e^y,
ALOG(Y)	Natural logarithm; equivalent to ln(Y),
SQRT(Y)	Square root; equivalent to Y**.5 ,
ABS(Y)	Absolute value; equivalent to ±Y±,
AMAX1(X,Y...)	Largest value; equivalent to MAX(X,Y,...),

The dyadic operators used in the model are:

X+Y	Addition of X and Y
X-Y	Subtraction of Y from X
X/Y	Division of X by Y
X*Y	Multiplication of X by Y
X**Y	Exponentiation of X by Y -- i.e., X^Y

Two types of lags-- simple and distributed -- are used in the description of the equations. If mnem is a model mnemonic, then the simple lag, mnem<-n>, denotes mnem lagged n periods.

$MTOTYK_{t-1}$ is written as MTOTYK<-1>

If <-n> appears to the right of an expression (to the right of a parenthesis), then all mnemonics in the expression are lagged n periods. Lagging takes precedence over operators and can, therefore, alter the apparent algebraic meaning of an operation. For example, D(MTOTYK)<-1> is equivalent to:

MTOTYK<-1> - MTOTYK<-2>

If expr is equivalent to (B*mnem), then the distributed lag of expr through periods t-n to t-m is represented by:

expr<-n,-m>. For example, (B*MTOTYK) <0,-2> is equivalent to:

$(B_i * MTOTYK_{t-1} + B_{i+1} * MTOTYK_{t-2} + B_{i+2} * MTOTYK_{t-2})$

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```
B.2  PRELIMINARY ESTIMATES OF EMPLOYMENT

B 89   LONG TERM EMPLOYMENT ESTIMATES
O ON
O NOXREF,NOSUM
S      IF (XCTL89.NE.1.0) GOTO 1000
O XREF
C
C ... AGRNHT    AGRICULTURE              PRELIMINARY EMPLOYMENT
E    1 AGONHT=EXP(ALOG((EXP(-AGONEN))*(AGCCOK+AGCMEK)*
2      (((.5*AGY+.3*AGY<-1>+.2*AGY<-2>)/(AGCCOK+AGCMEK))**(1.0/.76535)))+B)
C- B(01)=-0.6531662E-01[  -3.84]
C- RB2=0.00 DW=1.09 S.E.E.= 0.6801149E-01 AAPE=633.54
C- 1966-1981
C-
C ... AGPNHT    PAID AGRICULTURE         PRELIMINARY EMPLOYMENT
E    2 AGPNHT=EXP(ALOG((EXP(-AGPNEN))*(AGCCOK+AGCMEK)*
2      (((.5*AGY+.3*AGY<-1>+.2*AGY<-2>)/(AGCCOK+AGCMEK))**(1.0/.76535)))+B)
C- B(01)= -2.401921     [-142.61]
C- RB2=0.00 DW=0.94 S.E.E.= 0.6737205E-01 AAPE=  2.08
C- 1966-1981
C-
C ... FSHNHT    FISHING+TRAPPING         PRELIMINARY EMPLOYMENT
E    4 FSHNHT=EXP(ALOG((EXP(-FSHNEN))*(FSCCOK+FSCMEK)*
2      (((.7*FSY+.2*FSY<-1>+.1*FSY<-2>)/(FSCCOK+FSCMEK))**(1.0/.84639)))+B)
C- B(01)= -2.809971     [-104.68]
C- RB2=0.00 DW=0.66 S.E.E.= 0.1230147      AAPE=  3.55
C- 1961-1981
C-
C ... RE1NHT    METAL MINING             PRELIMINARY EMPLOYMENT
E    6 RE1NHT=EXP(ALOG((EXP(-RE1NEN))*
2      MI01Y)+B)
C- B(01)= -1.195185     [-123.66]
C- RB2=0.00 DW=1.83 S.E.E.= 0.4428991E-01 AAPE=  2.97
C- 1961-1981
C-
C ... RE3NHT    PETROL+GAS               PRELIMINARY EMPLOYMENT
E   10 RE3NHT=EXP(ALOG((EXP(-RE3NEN))*
2       (.7*MI031Y+.2*MI031Y<-1>+.1*MI031Y<-2>))+B)
C- B(01)= 0.6537755     [  47.52]
C- RB2=0.00 DW=0.73 S.E.E.= 0.5997444E-01 AAPE=  7.37
C- 1963-1981
C-
C ... MFTNHT    MAN-FOOD                 PRELIMINARY EMPLOYMENT
E   16 MFTNHT=EXP(ALOG((EXP(-MFTNEN))*(MO1CCK+MO1CMK)*
2      (((.7*MA01Y+.2*MA01Y<-1>+.1*MA01Y<-2>)
3      /(MO1CCK+MO1CMK))**(1.0/0.591)))+B)
C- B(01)= 0.9427165     [ 214.79]
C- RB2=0.00 DW=0.91 S.E.E.= 0.2011302E-01 AAPE=  1.83
C- 1961-1981
C-
C ... MO2NHT    MAN-TOBACCO              PRELIMINARY EMPLOYMENT
```


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```
E   17 MO2NHT=EXP(ALOG((EXP(-MO2NEN))*(MO2CCK+MO2CMK)*
2      (((.5*MA02Y+.3*MA02Y<-1>+.2*MA02Y<-2>)/(MO2CCK+MO2CMK))**(1.0/0.454)))+B)
C- B(01)=-0.7205771     [ -54.36]
C- RB2=0.00 DW=0.34 S.E.E.= 0.6074275E-01 AAPE=  6.87
C- 1961-1981
C-
C ... MO3NHT    MAN-RUBBER              PRELIMINARY EMPLOYMENT
E   18 MO3NHT=EXP(B+B*ALOG((EXP(-MO3NEN))*(MO3CCK+MO3CMK)*
2      ((.7*MA03Y+.2*MA03Y<-1>+.1*MA03Y<-2>)/(MO3CCK+MO3CMK))**(1.0/.632)))
C- B(01)= 0.6359282     [   2.75] B(02)=  1.040378     [  13.88]
C- RB2=0.91 DW=0.66 S.E.E.= 0.7293560E-01 AAPE=  1.53
C- 1961-1981
C-
C ... MO4NHT    MAN-LEATHER             PRELIMINARY EMPLOYMENT
E   19 MO4NHT=EXP(B+B*ALOG((EXP(-MO4NEN))*(MO4CCK+MO4CMK)*
2      (((.7*MA04Y+.2*MA04Y<-1>+.1*MA04Y<-2>)
3      /(MO4CCK+MO4CMK))**(1.0/0.85))))
C- B(01)= -1.012635     [  -4.68] B(02)=  1.144389     [  20.22]
C- RB2=0.95 DW=1.17 S.E.E.= 0.2483036E-01 AAPE=  0.56
C- 1961-1981
C-
C ... MO5NHT    MAN-TEXTILES            PRELIMINARY EMPLOYMENT
E   20 MO5NHT=EXP(ALOG((EXP(-MO5NEN))*(MO5CCK+MO5CMK)*
2      (((.8*MA05Y+.2*MA05Y<-1>)
3      /(MO5CCK+MO5CMK))**(1.0/0.695)))+B)
C- B(01)=  1.739731     [ 104.07]
C- RB2=0.00 DW=0.65 S.E.E.= 0.7660566E-01 AAPE=  3.55
C- 1961-1981
C-
C ... MO8NHT    MAN-WOOD                PRELIMINARY EMPLOYMENT
E   22 MO8NHT=EXP(B+B*ALOG((EXP(-MO8NEN))*(MO8CCK+MO8CMK)*
2      (((.7*MA08Y+.2*MA08Y<-1>+.1*MA08Y<-2>)
3      /(MO8CCK+MO8CMK))**(1.0/0.814))))
C- B(01)=-0.5685363     [  -1.25] B(02)=  1.051315     [  11.38]
C- RB2=0.87 DW=0.57 S.E.E.= 0.4187646E-01 AAPE=  0.77
C- 1961-1981
C-
C ... MO9NHT    MAN-FURNITURE           PRELIMINARY EMPLOYMENT
E   23 MO9NHT=EXP(B+B*ALOG((EXP(-MO9NEN))*(MO9CCK+MO9CMK)*
2      (MA09Y/(MO9CCK+MO9CMK))**(1.0/0.768)))
C- B(01)= 0.2517630     [   0.61] B(02)= 0.8048099     [   8.69]
C- RB2=0.79 DW=0.50 S.E.E.= 0.5918414E-01 AAPE=  1.28
C- 1961-1981
C-
C ... M11NHT    MAN-PRINT+PUBLISH       PRELIMINARY EMPLOYMENT
E   27 M11NHT=EXP(B+B*ALOG((EXP(-M11NEN))*(M11CCK+M11CMK)*
2      ((.7*MA11Y+.2*MA11Y<-1>+.1*MA11Y<-2>)
3      /(M11CCK+M11CMK))**(1.0/0.75)))
C- B(01)= 0.8527374E-01[   0.21] B(02)=  1.030360     [  10.66]
C- RB2=0.85 DW=0.23 S.E.E.= 0.4188054E-01 AAPE=  0.70
C- 1961-1981
C-
```


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```
C ... MMTNHT    MAN-PRIMARY METALS    PRELIMINARY EMPLOYMENT
E  28 MMTNHT=EXP(B+ALOG((EXP(-MMTNEN))*(M12CCK+M12CMK)*
2     (((.7*MA12Y+.2*MA12Y<-1>+.1*MA12Y<-2>)
3     /(M12CCK+M12CMK))**(1.0/0.68))))
C- B(01)=-0.9330372     [ -69.99]
C- RB2=0.00 DW=0.44 S.E.E.= 0.6108603E-01 AAPE=  5.75
C- 1961-1981
C-
C ... M13NHT    MAN-METAL FABRICATING PRELIMINARY EMPLOYMENT
E  29 M13NHT=EXP(B+B*ALOG((EXP(-M13NEN))*(M13CCK+M13CMK)*
2     (((.7*MA13Y+.2*MA13Y<-1>+.1*MA13Y<-2>)
3     /(M13CCK+M13CMK))**(1.0/0.7))))
C- B(01)=-0.8956311     [  -0.99] B(02)= 0.9583630     [   6.50]
C- RB2=0.73 DW=0.67 S.E.E.= 0.3077325E-01 AAPE=  0.50
C- 1966-1981
C-
C ... MTANHT    MTO+MT3                PRELIMINARY EMPLOYMENT
E  38 MTANHT=EXP(B+ALOG((EXP(-MTANEN))*(MTACMK+MTACCK)*
2     (((.7*(MA150Y+MA153Y)+.2*(MA150Y<-1>+MA153Y<-1>)
3     +.1*(MA150Y<-2>+MA153Y<-2>))
4     /(MTACMK+MTACCK))**(1/.62092))))
C- B(01)=  4.212032     [  94.37]
C- RB2=0.00 DW=0.34 S.E.E.= 0.2045429     AAPE=  4.11
C- 1961-1981
C-
C ... MT4NHT    MAN-AIRCRAFT+PARTS    PRELIMINARY EMPLOYMENT
E  34 MT4NHT=EXP(B+ALOG((EXP(-MT4NEN))*(MT4CMK+MT4CCK)*
2     ((MA154Y/(MT4CMK+MT4CCK))**(1/.66))))
C- B(01)= -4.034353     [ -96.70]
C- RB2=0.00 DW=0.25 S.E.E.= 0.1911843     AAPE=  3.81
C- 1961-1981
C-
C ... MTBNHT    MT5+MT7                PRELIMINARY EMPLOYMENT
E  39 MTBNHT=EXP(B+ALOG((EXP(-MTBNEN))*(MTBCMK+MTBCCK)*
2     (((.7*(MA155Y+MA157Y)+.2*(MA155Y<-1>+MA157Y<-1>)
3     +.1*(MA155Y<-2>+MA157Y<-2>))
4     /(MTBCMK+MTBCCK))**(1/.54808))))
C- B(01)=  9.051119     [ 336.67]
C- RB2=0.00 DW=0.47 S.E.E.= 0.1231977     AAPE=  1.05
C- 1961-1981
C-
C ... MT5NHT    MAN-RAILROAD EQUIP.   PRELIMINARY EMPLOYMENT
E  35 MT5NHT=MA155Y*(MT5NET<-1>/MA155Y<-1>)*
2     ((MTBNET/(MA155Y+MA157Y))/(MTBNET<-1>/(MA155Y<-1>+MA157Y<-1>)))
C-
C ... M17NHT    MAN-NON-METALLIC MIN. PRELIMINARY EMPLOYMENT
E  41 M17NHT=EXP(ALOG((EXP(-M17NEN))*(M17CCK+M17CMK)*
2     (((.7*MA17Y+.2*MA17Y<-1>+.1*MA17Y<-2>)
3     /(M17CCK+M17CMK))**(1.0/0.58)))+B)
C- B(01)=-0.4707901     [ -26.86]
C- RB2=0.00 DW=0.50 S.E.E.= 0.8032329E-01 AAPE= 15.18
C- 1961-1981
```


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NATIONAL ESTIMATION RESULTS
PRELIMINARY ESTIMATES OF EMPLOYMENT

```
C-
C ... MCTNHT    MAN-CHEMICALS          PRELIMINARY EMPLOYMENT
E  43 MCTNHT=EXP(ALOG((EXP(-MCTNEN))*(M19CCK+M19CMK)*
2     (((.4*MA19Y+.35*MA19Y<-1>+.25*MA19Y<-2>)
3     /(M19CCK+M19CMK))**(1.0/0.628)))+B)
C- B(01)=  2.202738     [ 140.91]
C- RB2=0.00 DW=0.30 S.E.E.= 0.7163757E-01 AAPE=  2.57
C- 1961-1981
C-
C ... CONNHT    CONSTRUCTION           PRELIMINARY EMPLOYMENT
E  45 CONNHT=EXP(ALOG((EXP(-CONNEN))*(COCMEK)*
2     ((COY/(COCMEK))**(1.0/.729355)))+B)
C- B(01)= -1.104261     [-162.98]
C- RB2=0.00 DW=0.78 S.E.E.= 0.3104814E-01 AAPE=  2.31
C- 1961-1981
C-
C ... TTRNHT    RAILWAY TRANS.         PRELIMINARY EMPLOYMENT
E  51 TTRNHT=EXP(ALOG((EXP(-TTRNEN))*(TRACCK+TRACMK)*
2     (((.7*TRALY+.2*TRALY<-1>+.1*TRALY<-2>)
3     /(TRACCK+TRACMK))**(1.0/.733296)))+B)
C- B(01)=  7.566631     [ 272.63]
C- RB2=0.00 DW=0.16 S.E.E.= 0.1271852     AAPE=  1.41
C- 1961-1981
C-
C ... TTWNHT    WATER TRANS.           PRELIMINARY EMPLOYMENT
E  55 TTWNHT=EXP(ALOG((EXP(-TTWNEN))*(TWACCK+TWACMK)*
2     (((.7*TWATY+.2*TWATY<-1>+.1*TWATY<-2>)/
3     (TWACCK+TWACMK))**(1.0/.746147)))+B)
C- B(01)=  1.052043
C-
C ... UTENHT    ELECTRIC UTIL.         PRELIMINARY EMPLOYMENT
E  61 UTENHT=EXP(ALOG((EXP(-UTENEN))*(EPICCK+EPICMK)*
2     (((.4*CSELEY+.4*CSELEY<-1>+.2*CSELEY<-2>)/(EPICCK+EPICMK))**(1.0/.2951))
3     )+B+B*(D72+D73+D74))
C- B(01)=  8.425241     [ 502.13] B(02)=-0.1993716     [  -4.49]
C- RB2=0.49 DW=0.34 S.E.E.= 0.7118798E-01 AAPE=  0.71
C- 1961-1981
C-
C ... UTGNHT    GAS UTIL.              PRELIMINARY EMPLOYMENT
E  62 UTGNHT=EXP(ALOG((EXP(-UTGNEN))*
2     UT2Y)+B)
C- B(01)=  2.169389     [ 243.42]
C- RB2=0.00 DW=1.33 S.E.E.= 0.2825496E-01 AAPE=  0.88
C- 1972-1981
C-
C ... UTONHT    WATER+OTHER UTIL.      PRELIMINARY EMPLOYMENT
E  63 UTONHT=EXP(ALOG((EXP(-UTONEN))*
2     UT3Y)+B)
C- B(01)= -1.942824     [-161.79]
C- RB2=0.00 DW=0.77 S.E.E.= 0.3780462E-01 AAPE=  1.57
C- 1972-1981
C-
```


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```
C ... TRRNHT    RETAIL TRADE              PRELIMINARY EMPLOYMENT
E  66 TRRNHT=EXP(ALOG((EXP(-TRRNEN))*
2     TRRY)+B+B*(D71+D72+D73+D74+D75+D76+D77+D78+D79+D80))
C- B(01)=-0.8234485     [ -90.00] B(02)=-0.6758140E-01[  -5.10]
C- RB2=0.56 DW=0.56 S.E.= 0.3034546E-01 AAPE=  2.71
C- 1961-1981
C-
F1000 CONTINUE


B.3  FINAL ESTIMATES OF EMPLOYMENT

B 90  FINAL ESTIMATE EMPLOYMENT NATIONAL
O ON
O NOXREF,NOSUM
S     IF (XCTL90.NE.1.0) GOTO 1000
O     XREF
C
C ... AGONET    AGRICULTURE               EMPLOYMENT
E   1 AGONET=AGONHT*EXP(B+
2     B*ALOG((AGONET/AGONHT)<-1>)+
3     (B*UDLAG(ALOG((AGY/(AGCMEK))
4     /((AGY/(AGCMEK))<-1>)),1))<0,-4>)
C- B(01)=-0.1443500     [  -4.54] B(02)= 0.5967134     [   3.97]
C- B(03)=-0.9029109     [  -4.93] B(04)=-0.7223288     [  -4.93]
C- B(05)=-0.5417466     [  -4.93] B(06)=-0.3611644     [  -4.93]
C- B(07)=-0.1805822     [  -4.93]
C- RB2=0.69 DW=1.67 S.E.= 0.3828819E-01 AAPE=255.71
C- 1967-1981
C-
C ... AGPNET    PAID AGRICULTURE          EMPLOYMENT
E   2 AGPNET=AGPNHT*EXP(B+
2     B*ALOG((AGPNET/AGPNHT)<-1>)+
3     (B*UDLAG(ALOG((AGY/(AGCMEK))
4     /((AGY/(AGCMEK))<-1>)),1))<0,-4>)
C- B(01)=-0.1578991     [  -4.58] B(02)= 0.8910290     [   5.43]
C- B(03)=-0.9427869     [  -4.73] B(04)=-0.7542295     [  -4.73]
C- B(05)=-0.5656722     [  -4.73] B(06)=-0.3771148     [  -4.73]
C- B(07)=-0.1885574     [  -4.73]
C- RB2=0.71 DW=1.95 S.E.= 0.3774781E-01 AAPE=113.62
C- 1967-1981
C-
O NOCON
C ... AGRNET    TOTAL AGRICULTURE         EMPLOYMENT
E 88  AGRNET=AGONET+AGPNET
C-
O CON
C ... FORNET    FORESTRY                  EMPLOYMENT
E   3 FORNET=FORNET<-1>*EXP(B+B*FOVMEK+
2     B*ALOG((FOCMEK+FOCCOK)*((FOY/(FOCMEK+FOCCOK))**
3     (1.0/.85192))/FORNET<-1>))
C- B(01)= 0.7237951E-01[   0.49] B(02)=-0.7571785E-02[  -1.63]
```


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NATIONAL ESTIMATION RESULTS
FINAL ESTIMATES OF EMPLOYMENT

```
C- B(03)= 0.2154626     [   1.88]
C- RB2=0.07 DW=1.34 S.E.E.= 0.5231987E-01 AAPE=199.04
C- 1962-1981
C-
C ... FSHNET     FISHING+TRAPPING        EMPLOYMENT
E   4 FSHNET=FSHNHT*EXP(B+
2      B*ALOG((FSHNET/FSHNHT)<-1>)+
3      (B*UDLAG(ALOG((FSY)/((FSY)<-1>)),0))<0,-4>
4      )
C- B(01)= 0.8841030E-01[   1.82] B(02)= 0.4920626     [   2.62]
C- B(03)=-0.6841102     [  -1.94] B(04)=-0.5472882     [  -1.94]
C- B(05)=-0.4104661     [  -1.94] B(06)=-0.2736441     [  -1.94]
C- B(07)=-0.1368220     [  -1.94]
C- RB2=0.50 DW=1.14 S.E.E.= 0.8954709E-01 AAPE= 83.38
C- 1962-1981
C-
C ... RE1NET     METAL MINING            EMPLOYMENT
E   6 RE1NET=RE1NHT*EXP(B+
2      (B*UDLAG(ALOG((M101Y)/((M101Y)<-1>)),0))<0,-4>
3      )
C- B(01)= 0.4961274E-01[   1.91] B(02)=-0.3765467     [  -2.03]
C- B(03)=-0.3012374     [  -2.03] B(04)=-0.2259280     [  -2.03]
C- B(05)=-0.1506187     [  -2.03] B(06)=-0.7530935E-01[  -2.03]
C- RB2=0.14 DW=1.40 S.E.E.= 0.4117436E-01 AAPE=129.67
C- 1961-1981
C-
C ... RE2NET     COAL                    EMPLOYMENT
E   9 RE2NET=RE2NET<-1>*EXP(B+B*TIME+
2      B*ALOG(M102Y/RE2NET<-1>))
C- B(01)= 0.1530320     [   0.28] B(02)=-0.1758614E-01[  -1.63]
C- B(03)= 0.4647722     [   3.01]
C- RB2=0.30 DW=1.20 S.E.E.= 0.1768684      AAPE=343.79
C- 1962-1981
C-
C ... RE3NET     PETROL+GAS              EMPLOYMENT
E  10 RE3NET=RE3NHT*EXP(B+
2      B*ALOG((RE3NET/RE3NHT)<-1>)+
3      (B*UDLAG2(ALOG((M1031Y)/((M1031Y)<-1>)),1,0.047849))<0,-2>
4      )
C- B(01)=-0.7626949E-02[  -0.60] B(02)= 0.6076988     [   3.27]
C- B(03)=-0.3307448     [  -1.56] B(04)=-0.2204965     [  -1.56]
C- B(05)=-0.1102483     [  -1.56]
C- RB2=0.39 DW=1.84 S.E.E.= 0.4612199E-01 AAPE=438.17
C- 1964-1981
C-
C ... RE4NET     NON-MET MINING          EMPLOYMENT
E  11 RE4NET=RE4NET<-1>*EXP(B+B*TIME+
2      B*ALOG(M104Y/RE4NET<-1>))
C- B(01)=-0.2260275     [  -1.53] B(02)=-0.6577473E-02[  -3.43]
C- B(03)= 0.2480812     [   3.19]
C- RB2=0.36 DW=1.98 S.E.E.= 0.3179537E-01 AAPE=337.91
C- 1962-1981
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C-
O NOCON
C ... R24NET    NON-METALCOAL MINES  EMPLOYMENT
E  89 R24NET=RE2NET+RE4NET
C-
O CON
C ... RE5NET    MINING SERVICES      EMPLOYMENT
E  12 RE5NET=RE5NET<-1>*EXP(B+B*TIME+
2     B*ALOG(M105Y/RE5NET<-1>))
C- B(01)= -1.323671     [  -7.91] B(02)= 0.1092183E-01[   7.55]
C- B(03)= 0.2486623     [   8.71]
C- RB2=0.80 DW=1.95 S.E.= 0.2059890E-01 AAPE= 72.23
C- 1962-1981
C-
O NOCON
C ... RESNET    TOTAL MINING         EMPLOMENT
E  05 RESNET=RE1NET+R24NET+RE3NET+RE5NET
C-
O CON
C ... MFTNET    MAN-FOOD             EMPLOYMENT
E  16 MFTNET=MFTNHT*EXP(B+
2     B*ALOG((MFTNET/MFTNHT)<-1>)+
3     B*UDLAG(ALOG((MA01Y/M01CMK)/((MA01Y/M01CMK)<-1>)),0)
4     )
C- B(01)= 0.3722284E-02[   1.04] B(02)= 0.6224056     [   3.69]
C- B(03)= -1.207008     [  -2.91]
C- RB2=0.47 DW=1.40 S.E.= 0.1496880E-01 AAPE= 94.21
C- 1962-1981
C-
C ... MO2NET    MAN-TOBACCO          EMPLOYMENT
E  17 MO2NET=MO2NHT*EXP(B+
2     B*ALOG((MO2NET/MO2NHT)<-1>)+
3     B*UDLAG(ALOG((MA02Y/MO2CMK)/((MA02Y/MO2CMK)<-1>)),0)
4     )
C- B(01)= 0.7353577E-02[   0.92] B(02)= 0.8037279     [   7.15]
C- B(03)= -1.324097     [  -2.51]
C- RB2=0.73 DW=1.69 S.E.= 0.3017097E-01 AAPE= 92.30
C- 1962-1981
C-
C ... MO3NET    MAN-RUBBER           EMPLOYMENT
E  18 MO3NET=MO3NHT*EXP(B+
2     B*ALOG((MO3NET/MO3NHT)<-1>)+
3     (B*UDLAG(ALOG((MA03Y)/((MA03Y)<-1>)),0))<0,-1>+
4     (B*UDLAG(ALOG((MA03Y)/((MA03Y)<-1>)),1))<0,-1>
5     )
C- B(01)= 0.3816482E-01[   1.83] B(02)= 0.5781146     [   5.22]
C- B(03)=-0.4481487     [  -3.18] B(04)=-0.2240743     [  -3.18]
C- B(05)=-0.9402749     [  -2.89] B(06)=-0.4701374     [  -2.89]
C- RB2=0.81 DW=1.78 S.E.= 0.2826106E-01 AAPE= 68.53
C- 1962-1981
C-
C ... MO4NET    MAN-LEATHER          EMPLOYMENT
```


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E   19 MO4NET=MO4NHT*EXP(B+
2      B*ALOG((MO4NET/MO4NHT)<-1>)+
3      (B*UDLAG(ALOG((MAO4Y)/((MAO4Y)<-1>)),0))<0,-1>
4      )
C- B(01)= 0.1276646E-01[   1.64] B(02)= 0.3344412    [   1.67]
C- B(03)=-0.3645960    [  -2.22] B(04)=-0.1822980    [  -2.22]
C- RB2=0.24 DW=1.50 S.E.E.= 0.2045873E-01 AAPE=219.46
C- 1962-1981
C-
C ... MO5NET    MAN-TEXTILES           EMPLOYMENT
E   20 MO5NET=MO5NHT*EXP(B+
2      B*ALOG((MO5NET/MO5NHT)<-1>)+
3      B*UDLAG(ALOG((MAO5Y)/((MAO5Y)<-1>)),0)
4      )
C- B(01)= 0.6728987E-01[   6.04] B(02)= 0.7296045    [   8.06]
C- B(03)= -1.172482    [  -7.48]
C- RB2=0.85 DW=1.51 S.E.E.= 0.2980228E-01 AAPE=185.86
C- 1962-1981
C-
C ... M67NET    MAN-KNITTING+CLOTHING EMPLOYMENT
E   21 M67NET=M67NET<-1>*EXP(B+B*M67VMK+
2      B*ALOG((M67CMK+M67CCK)*((MA67Y/(M67CMK+M67CCK))**
3      (1.0/.781))/M67NET<-1>))
C- B(01)= 0.4887140E-01[   1.56] B(02)=-0.1575985E-01[  -7.34]
C- B(03)= 0.4860868    [   6.91]
C- RB2=0.74 DW=1.21 S.E.E.= 0.1358611E-01 AAPE= 97.09
C- 1962-1981
C-
C ... MO8NET    MAN-WOOD               EMPLOYMENT
E   22 MO8NET=MO8NHT*EXP(B+
2      B*ALOG((MO8NET/MO8NHT)<-1>)+
3      B*UDLAG(ALOG((MAO8Y)/((MAO8Y)<-1>)),1)
4      )
C- B(01)=-0.7226729E-02[  -1.07] B(02)= 0.6139955    [   3.94]
C- B(03)=-0.5417946    [  -2.05]
C- RB2=0.53 DW=1.46 S.E.E.= 0.2725315E-01 AAPE= 78.12
C- 1962-1981
C-
C ... MO9NET    MAN-FURNITURE          EMPLOYMENT
E   23 MO9NET=MO9NHT*EXP(B+
2      B*ALOG((MO9NET/MO9NHT)<-1>)+
3      B*UDLAG(ALOG((MAO9Y)/((MAO9Y)<-1>)),0)
4      )
C- B(01)= 0.3790446E-01[   3.62] B(02)= 0.7683536    [   6.48]
C- B(03)=-0.6414936    [  -4.36]
C- RB2=0.76 DW=1.60 S.E.E.= 0.2901763E-01 AAPE= 56.01
C- 1962-1981
C-
C ... MP1NET    MAN-PULP+PAPER         EMPLOYMENT
E   25 MP1NET=MP1NET<-1>*EXP(B+B*M10VMK+
2      B*ALOG((MP1CMK+MP1CCK)*((MA10IY/(MP1CMK+MP1CCK))**
3      (1.0/.70933))/MP1NET<-1>))
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C- B(01)=-0.3671348E-01[  -0.57] B(02)=-0.3102326E-02[  -2.99]
C- B(03)= 0.1325541    [   3.30]
C- RB2=0.35 DW=1.74 S.E.E.= 0.2024257E-01 AAPE=125.85
C- 1962-1981
C-
C ... MP2NET    MAN PAPER CONVERTERS  EMPLOYMENT
E  26 MP2NET=MP2NET<-1>*EXP(B+B*M10VMK+
2     B*ALOG((MP2CMK+MP2CCK)*((MA102Y/(MP2CMK+MP2CCK))**
3     (1.0/.70404))/MP2NET<-1>))
C- B(01)=-0.1036235    [  -1.14] B(02)=-0.9074167E-02[  -5.31]
C- B(03)= 0.3283865    [   4.55]
C- RB2=0.58 DW=1.50 S.E.E.= 0.2390543E-01 AAPE=190.19
C- 1962-1981
C-
O  NOCON
C     MPTNET    MAN-PAPPULP, _CONV. EMPLOYMENT
E  24 MPTNET=MP1NET+MP2NET
C-
O  CON
C ... M11NET    MAN-PRINT+PUBLISH     EMPLOYMENT
E  27 M11NET=M11NHT*EXP(B+
2     B*ALOG((M11NET/M11NHT)<-1>)+
3     (B*UDLAG(ALOG((MA11Y)/((MA11Y)<-1>)),0))<0,-2>
4     )
C- B(01)= 0.3565237E-01[   3.43] B(02)= 0.9081957    [  10.14]
C- B(03)=-0.3312685    [  -3.05] B(04)=-0.2208457    [  -3.05]
C- B(05)=-0.1104228    [  -3.05]
C- RB2=0.85 DW=1.14 S.E.E.= 0.1405196E-01 AAPE= 63.06
C- 1962-1981
C-
C ... MMTNET    MAN-PRIMARY METALS    EMPLOYMENT
E  28 MMTNET=MMTNHT*EXP(B+
2     B*ALOG((MMTNET/MMTNHT)<-1>)+
3     (B*UDLAG(ALOG((MA12Y)/((MA12Y)<-1>)),0))<0,-1>+
4     (B*UDLAG(ALOG((MA12Y)/((MA12Y)<-1>)),1))<0,-1>
5     )
C- B(01)= 0.2021579E-01[   1.77] B(02)= 0.8258164    [   9.60]
C- B(03)=-0.4478910    [  -3.61] B(04)=-0.2239455    [  -3.61]
C- B(05)=-0.6076544    [  -2.92] B(06)=-0.3038272    [  -2.92]
C- RB2=0.86 DW=1.60 S.E.E.= 0.2169563E-01 AAPE= 40.58
C- 1962-1981
C-
C ... M13NET    MAN-METAL FABRICATING EMPLOYMENT
E  29 M13NET=M13NHT*EXP(B+
2     B*ALOG((M13NET/M13NHT)<-1>)+
3     (B*UDLAG(ALOG((MA13Y)/((MA13Y)<-1>)),0))<0,-1>+
4     (B*UDLAG(ALOG((MA13Y)/((MA13Y)<-1>)),1))<0,-1>
5     )
C- B(01)= 0.5084609E-02[   0.70] B(02)= 0.7741443    [   5.38]
C- B(03)=-0.2387687    [  -2.23] B(04)=-0.1193844    [  -2.23]
C- B(05)=-0.6262284    [  -4.35] B(06)=-0.3131142    [  -4.35]
C- RB2=0.81 DW=1.59 S.E.E.= 0.1325117E-01 AAPE= 45.96
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```
C- 1967-1981
C-
C ... M14NET    MAN-MACHINERY          EMPLOYMENT
E  30 M14NET=M14NET<-1>*EXP(B+B*M14VMK+
2     B*ALOG((M14CMK+M14CCK)*((MA14Y/(M14CMK+M14CCK))**
3     (1.0/.754))/M14NET<-1>))
C- B(01)= 0.3182079     [   4.25] B(02)=-0.2438470E-01[  -7.38]
C- B(03)= 0.5452511     [   7.18]
C- RB2=0.74 DW=1.83 S.E.E.= 0.2903056E-01 AAPE= 90.13
C- 1962-1981
C-
C ... MTANET    MTO+MT3                EMPLOYMENT
E  38 MTANET=MTANHT*EXP(B+B*ALOG(MTANET<-1>/MTANHT<-1>)+
2     (B*UDLAG(ALOG((TM8745+TM8746)/(TM8745<-1>+TM8746<-1>)),1))<0,-4>
3     )
C- B(01)=-0.4884641E-01[  -1.90] B(02)= 0.8585919     [   8.11]
C- B(03)=-0.8372402     [  -3.35] B(04)=-0.6697921     [  -3.35]
C- B(05)=-0.5023441     [  -3.35] B(06)=-0.3348961     [  -3.35]
C- B(07)=-0.1674480     [  -3.35]
C- RB2=0.79 DW=1.04 S.E.E.= 0.9545009E-01 AAPE= 55.25
C- 1962-1981
C-
C ... MT4NET    MAN-AIRCRAFT+PARTS     EMPLOYMENT
E  34 MT4NET=MT4NHT*EXP(B+B*ALOG(MT4NET<-1>/MT4NHT<-1>)+
2     (B*UDLAG(ALOG(TM8747/TM8747<-1>),1))<0,-2>
3     +B*UDLAG(ALOG(TM8747/TM8747<-1>),0)
4     )
C- B(01)= 0.2442743E-02[   0.06] B(02)= 0.9512778     [   8.63]
C- B(03)=-0.3372945     [  -1.41] B(04)=-0.2248630     [  -1.41]
C- B(05)=-0.1124315     [  -1.41] B(06)=-0.4520522     [  -1.43]
C- RB2=0.83 DW=2.03 S.E.E.= 0.8076691E-01 AAPE=137.76
C- 1962-1981
C-
C ... MTBNET    MT5+MT7                EMPLOYMENT
E  39 MTBNET=MTBNHT*EXP(B+B*ALOG(MTBNET<-1>/MTBNHT<-1>)
2     +(B*UDLAG(ALOG((TM8748+TM8750)/(TM8748<-1>+TM8750<-1>)),1))<0,-4>
3     +(B*UDLAG(ALOG((TM8748+TM8750)/(TM8748<-1>+TM8750<-1>)),0))<0,-2>
4     )
C- B(01)= 0.5575657E-01[   2.09] B(02)= 0.5456767     [   4.86]
C- B(03)=-0.1462183     [  -1.42] B(04)=-0.1169746     [  -1.42]
C- B(05)=-0.8773095E-01[  -1.42] B(06)=-0.5848730E-01[  -1.42]
C- B(07)=-0.2924365E-01[  -1.42] B(08)=-0.2858011     [  -3.34]
C- B(09)=-0.1905341     [  -3.34] B(10)=-0.9526704E-01[  -3.34]
C- RB2=0.73 DW=2.12 S.E.E.= 0.5866396E-01 AAPE=529.35
C- 1962-1981
C-
C ... MT6NET    MAN-SHIPBUILDING       EMPLOYMENT
E  36 MT6NET=MT6NET<-1>*EXP(B+
2     B*ALOG((MT6CMK+MT6CCK)*((MA156Y/(MT6CMK+MT6CCK))**
3     (1.0/.5534))/MT6NET<-1>))
C- B(01)=-0.6286067     [  -2.99] B(02)= 0.3169654     [   3.03]
C- RB2=0.30 DW=1.34 S.E.E.= 0.7591353E-01 AAPE= 66.27
```

```
C- 1962-1981
C-
C ... MT5NET    MAN-RAILROAD EQUIP.   EMPLOYMENT
E  35 MT5NET=MT5NHT*EXP(B)
C- B(01)= 0.5732272E-02[   0.47]
C- RB2=0.00 DW=2.01 S.E.E.= 0.5451418E-01 AAPE=138.43
C- 1962-1981
C-
O  NOCON
C ... MT7NET    MAN-MISC TRANS EQUIP. EMPLOYMENT
E  37 MT7NET=MTBNET-MT5NET
C-
C     MTTNET    TOTAL MAN-TR. EQ.     EMPLOYMENT
E  31 MTTNET=MTANET+MT4NET+MT6NET+MT7NET+MT5NET
C-
O  CON
C ... M16NET    MAN-ELECTRICAL PROD.  EMPLOYMENT
E  40 M16NET=M16NET<-1>*EXP(B+B*M16VMK+
2     B*ALOG((M16CMK+M16CCK)*((MA16Y/(M16CMK+M16CCK))**
3     (1.0/.75))/M16NET<-1>))
C- B(01)=-0.6489223E-01[  -0.67] B(02)=-0.1662306E-01[  -5.50]
C- B(03)= 0.4875755     [   4.89]
C- RB2=0.60 DW=1.16 S.E.E.= 0.3081486E-01 AAPE= 72.25
C- 1962-1981
C-
C ... M17NET    MAN-NON-METALLIC MIN. EMPLOYMENT
E  41 M17NET=M17NHT*EXP(B+
2     B*ALOG((M17NET/M17NHT)<-1>)+
3     (B*UDLAG(ALOG((MA17Y)/((MA17Y)<-1>)),0))<0,-4>+
4     B*UDLAG(ALOG((MA17Y)/((MA17Y)<-1>)),1)
5     )
C- B(01)= 0.4576283E-01[   2.42] B(02)= 0.7526854     [   9.52]
C- B(03)=-0.4202500     [  -4.04] B(04)=-0.3362000     [  -4.04]
C- B(05)=-0.2521500     [  -4.04] B(06)=-0.1681000     [  -4.04]
C- B(07)=-0.8404999E-01[  -4.04] B(08)= -1.018419      [  -4.12]
C- RB2=0.87 DW=1.21 S.E.E.= 0.2552588E-01 AAPE= 54.75
C- 1962-1981
C-
C ... M18NET    MAN-PETROL+COAL       EMPLOYMENT
E  42 M18NET=EXP(B+B*ALOG(EXP(-M18NEN)*MA18Y)+B*D67)
C- B(01)= 0.5704083     [   0.71] B(02)= 0.7070214     [   2.59]
C- B(03)= 0.1454355     [   1.64]
C- RB2=0.33 DW=0.51 S.E.E.= 0.8316669E-01 AAPE=  2.37
C- 1961-1973
C-
C ... MCTNET    MAN-CHEMICALS         EMPLOYMENT
E  43 MCTNET=MCTNHT*EXP(B+
2     B*ALOG((MCTNET/MCTNHT)<-1>)+
3     B*UDLAG(ALOG((MA19Y/(M19CMK+M19CCK))/((MA19Y/(M19CMK+M19CCK))<-1>)),0)
4     )
C- B(01)= 0.6955784E-02[   0.77] B(02)= 0.8796268     [   8.05]
C- B(03)=-0.7228854     [  -2.58]
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C- RB2=0.77 DW=1.65 S.E.E.= 0.3208903E-01 AAPE= 78.04
C- 1962-1981
C-
C ... M20NET    MAN-MISCELLANEOUS      EMPLOYMENT
E  44 M20NET=M20NET<-1>*EXP(B+B*M20VMK+
2     B*ALOG((M20CMK+M20CCK)*((MA20Y/(M20CMK+M20CCK))**
3     (1.0/.724))/M20NET<-1>))
C- B(01)=-0.7497253E-01[  -1.37] B(02)=-0.1154883E-01[  -6.00]
C- B(03)= 0.3862717    [   5.64]
C- RB2=0.64 DW=1.71 S.E.E.= 0.1623168E-01 AAPE=151.31
C- 1962-1981
C-
O NOCON
C ... MMNDNET   TOTAL MAN. NON-DUR.    EMPLOYMENT
E  15 MNDNET=MFTNET+M02NET+M03NET+M04NET+M05NET+M67NET+MP1NET+
O2    MP2NET+M11NET+M18NET+MCTNET+M20NET
C-
C ... MDUNET    TOTAL MAN. DUR.        EMPLOYMENT
E  14 MDUNET=M08NET+M09NET+MMTNET+M13NET+M14NET+MTANET+MT4NET+
O2    MTBNET+MT6NET+M16NET+M17NET
C-
C ... MANNET    TOTAL MANUFATURING     EMPLOYMENT
E  13 MANNET=MDUNET+MNDNET
C-
O CON
C ... CONNET    CONSTRUCTION           EMPLOYMENT
E  45 CONNET=CONNHT*EXP(B+
2     (B*UDLAG(ALOG((COY)/((COY)<-1>)),0))<0,-4>
3     )
C- B(01)= 0.3655521E-01[   2.51] B(02)=-0.3315786    [  -2.74]
C- B(03)=-0.2652629    [  -2.74] B(04)=-0.1989472    [  -2.74]
C- B(05)=-0.1326314    [  -2.74] B(06)=-0.6631572E-01[  -2.74]
C- RB2=0.25 DW=0.79 S.E.E.= 0.2696724E-01 AAPE=163.03
C- 1961-1981
C-
C ... TTANET    AIR TRANS.             EMPLOYMENT
E  50 TTANET=TTANET<-1>*EXP(B+B*TIME+
2     B*ALOG((TAICMK+TAICCK)*((TAIRY/(TAICMK+TAICCK))**
3     (1.0/.693951))/TTANET<-1>))
C- B(01)=  1.514993    [   4.26] B(02)=-0.3526568E-01[  -4.33]
C- B(03)= 0.3999305    [   4.46]
C- RB2=0.49 DW=1.95 S.E.E.= 0.4569248E-01 AAPE=136.26
C- 1962-1981
C-
C ... TTRNET    RAILWAY TRANS.         EMPLOYMENT
E  51 TTRNET=TTRNHT*EXP(B+
2     B*ALOG((TTRNET/TTRNHT)<-1>)+
3     B*UDLAG(ALOG((TRALY)/((TRALY)<-1>)),0)
4     )
C- B(01)= 0.5373319E-01[   3.09] B(02)= 0.8566270    [   9.77]
C- B(03)=-0.8714328    [  -2.89]
C- RB2=0.89 DW=1.67 S.E.E.= 0.4302581E-01 AAPE= 86.87
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C- 1962-1981
C-
C ... TTPNET    PIPELINE TRANS.          EMPLOYMENT
E  52 TTPNET=EXP(B+B*ALOG(TPICMK+TPICCK))
C- B(01)= -4.555729     [ -10.59] B(02)= 0.7053176     [  13.81]
C- RB2=0.90 DW=0.57 S.E.E.= 0.8002327E-01 AAPE=  3.69
C- 1961-1981
C-
C ... TTMNET    MOTOR TRANS.             EMPLOYMENT
E  54 TTMNET=TTMNET<-1>*EXP(B+
2     B*ALOG((TMOCMK+TMOCCK )*((TMOTY/(TMOCMK+TMOCCK ))**
3     (1.0/.600247))/TTMNET<-1>))
C- B(01)=-0.2457029     [  -1.75] B(02)= 0.1076232     [   1.95]
C- RB2=0.13 DW=2.58 S.E.E.= 0.2547107E-01 AAPE= 92.84
C- 1962-1981
C-
C ... TTUNET    URBAN TRANS.             EMPLOYMENT
E  53 TTUNET=TURBY*(TTUNET<-1>/TURBY<-1>)*((TTMNET/TMOTY)/
2     (TTMNET<-1>/TMOTY<-1>))
C-
C ... TTWNET    WATER TRANS.             EMPLOYMENT
E  55 TTWNET=TTWNHT*EXP(B+
2     B*ALOG((TTWNET/TTWNHT)<-1>)+
3     B*UDLAG(ALOG((TWATY)/((TWATY)<-1>)),0)+
4     B*UDLAG(ALOG((TWATY)/((TWATY)<-1>)),1)
5     )
C- B(01)= 0.3197039E-01[   1.87] B(02)= 0.8940156     [  14.13]
C- B(03)= -1.039258     [  -4.22] B(04)=-0.6093405     [  -1.75]
C- RB2=0.92 DW=1.36 S.E.E.= 0.3603664E-01 AAPE=110.33
C- 1964-1981
C-
O  NOCON
C     TTTNET    TOTAL TRANS.             EMPLOYMENT
E  49 TTTNET=TTANET+TTRNET+TTPNET+TTUNET+TTWNET+TTMNET
C-
O  CON
C ... TSTNET    STORAGE                  EMPLOYMENT
E  56 TSTNET=TSTNET<-1>*EXP(B+B*TSSVMK+
2     B*ALOG((TSSCMK+TSSCCK)*((TSSY/(TSSCMK+TSSCCK))**
3     (1.0/.634349))/TSTNET<-1>))
C- B(01)= 0.1956815E-01[   0.31] B(02)=-0.3792071E-02[  -2.03]
C- B(03)= 0.1429766     [   2.04]
C- RB2=0.11 DW=1.29 S.E.E.= 0.2723272E-01 AAPE=122.61
C- 1962-1981
C-
O NOCON
C ... TTSNET    TRANS. _STORAGE
E 47   TTSNET=TTTNET+TSTNET
C-
O CON
C ... TCRNET    RADIO+T.V.               EMPLOYMENT
E  57 TCRNET=TCRNET<-1>*(TRTVY/TRTVY<-1>)
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FINAL ESTIMATES OF EMPLOYMENT

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C- B(01)=-0.1094872     [  -0.77] B(02)=-0.1442531E-02[  -0.71]
C- B(03)= 0.1034388     [   0.96]
C- RB2=-.05 DW=1.68 S.E.E.= 0.2127786E-01 AAPE= 77.77
C- 1962-1981
C-
C ... TCBNET    TELEPHONE COMM.          EMPLOYMENT
E  58 TCBNET=TCBNET<-1>*EXP(B+B*TELVMK+
2     B*ALOG((TELCMK+TELCCK)*((TTELY/(TELCMK+TELCCK))**
3     (1.0/.377))/TCBNET<-1>))
C- B(01)=  1.676862     [   3.22] B(02)=-0.2618812E-01[  -3.16]
C- B(03)= 0.3627559     [   3.28]
C- RB2=0.32 DW=2.34 S.E.E.= 0.3008735E-01 AAPE= 96.51
C- 1962-1981
C-
C ... TCPNET    POSTAL COMM.             EMPLOYMENT
E  59 TCPNET=EXP(B+B*ALOG(TPOSTY*EXP(-TCPNEN)))
C- B(01)= -4.695616     [  -7.32] B(02)=  1.172725     [  13.32]
C- RB2=0.90 DW=0.40 S.E.E.= 0.9188282E-01 AAPE=  1.97
C- 1961-1981
C-
O  NOCON
C     TCTNET    TOTAL COMM.              EMPLOYMENT
E  48 TCTNET=TCRNET+TCBNET+TCPNET
C-
C ... TSPNET    TRANS. COM. _STOR.    EMPLOYMENT
E 46  TSPNET=TTTNET+TSTNET+TCTNET
C-
O  CON
C ... UTENET    ELECTRIC UTIL.           EMPLOYMENT                          HH880609
E  61 UTENET=UTENET<-1>*EXP(B+
2     B*TIME+B*ALOG(CSELEY/UTENET<-1>))
C- B(01)= -1.217162     [  -1.93] B(02)=-0.1686574E-01[  -1.76]
C- B(03)= 0.7333342     [   2.06]
C- RB2=0.21 DW=2.77 S.E.E.= 0.3468380E-01 AAPE=121.85
C- 1972-1981
C-
C ... UTGNET    GAS UTIL.                EMPLOYMENT
E  62 UTGNET=UTGNHT*EXP(B+
2     B*ALOG((UTGNET/UTGNHT)<-1>)+
3     B*UDLAG2(ALOG((UT2Y)/((UT2Y)<-1>)),0,0.0852029)
4     )
C- B(01)= 0.9656977E-02[   0.65] B(02)= 0.3809552     [   0.54]
C- B(03)=-0.2216934     [  -0.13]
C- RB2=-.27 DW=1.51 S.E.E.= 0.2638271E-01 AAPE=106.50
C- 1973-1981
C-
C ... UTONET    WATER+OTHER UTIL.        EMPLOYMENT
E  63 UTONET=UTONHT*EXP(B+
2     B*ALOG(UTONET<-1>/UTONHT<-1>)+
3     (B*UDLAG(ALOG(UT3Y/UT3Y<-1>),0))<0,-3>
4     )
C- B(01)= 0.5916200E-01[   0.27] B(02)= 0.5099050     [   1.39]
```


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```
C- B(03)=-0.7360859     [  -0.21] B(04)=-0.5520644     [  -0.21]
C- B(05)=-0.3680429     [  -0.21] B(06)=-0.1840215     [  -0.21]
C- RB2=0.07 DW=0.99 S.E.E.= 0.3337909E-01 AAPE=137.03
C- 1973-1981
C-
O NOCON
C ... UTLNET    TOTAL UTILITY          EMPLOYMENT
E  60 UTLNET=UTENET+UTGNET+UTONET
C-
C ... TULNET    TR. COM., STO. _UT.  EMPLOYMENT
E  92 TULNET=TTTNET+TSTNET+TCTNET+UTLNET
C-
O CON
C ... TRRNET    RETAIL TRADE           EMPLOYMENT
E  66 TRRNET=TRRNHT*EXP(B+B*ALOG(TRRNET<-1>/TRRNHT<-1>)+
2     (B*UDLAG(ALOG(TRRY/TRRY<-1>),0))<0,-3>)
C- B(01)= 0.3674769E-01[   3.28] B(02)= 0.4657430     [   3.03]
C- B(03)=-0.3174799     [  -3.53] B(04)=-0.2381099     [  -3.53]
C- B(05)=-0.1587399     [  -3.53] B(06)=-0.7936997E-01[  -3.53]
C- RB2=0.65 DW=1.67 S.E.E.= 0.1690241E-01 AAPE= 73.23
C- 1962-1981
C-
C ... TRWNET    WHOLESALE TRADE        EMPLOYMENT
E  65 TRWNET=TRWNET<-1>*EXP(B+B*TRVMEK+B*ALOG(TRWY/TRWNET<-1>))
C- B(01)=-0.4578633     [  -1.89] B(02)=-0.8000583E-02[  -2.71]
C- B(03)= 0.3999759     [   2.41]
C- RB2=0.24 DW=1.59 S.E.E.= 0.2088028E-01 AAPE=106.61
C- 1962-1981
C-
O  NOCON
C     TRDNET    TRADE-TOTAL            EMPLOYMENT
E  64 TRDNET=TRWNET+TRRNET
C-
O  CON
C ... FITNET    F.I.R.E.               EMPLOYMENT
E  67 FITNET=FITNET<-1>*EXP(B+B*TIME+B*ALOG(((FIY-ROYLTY)/FITNET<-1>)))
C- B(01)= -1.183354     [  -3.57] B(02)=-0.6816835E-02[  -3.99]
C- B(03)= 0.5960453     [   3.86]
C- RB2=0.42 DW=1.55 S.E.E.= 0.1421155E-01 AAPE= 26.66
C- 1962-1981
C-
C ... SRLNET    RELIGOUS SERV.         EMPLOYMENT
E  73 SRLNET=CSRELY*EXP(B+B*D710N+B*
2     (1/(1+.3*((ABS(TIME-69.5))**2.0))-.1390415))
C- B(01)= -1.062186     [ -20.17] B(02)=-0.2302399     [  -4.02]
C- B(03)=-0.2598484     [  -3.01]
C- RB2=0.46 DW=1.71 S.E.E.= 0.7610950E-01 AAPE=  4.31
C- 1966-1983
C-
C ... SRRNET    RECREATION             EMPLOYMENT
E  74 SRRNET=CSAMUY*EXP(B+B*TIME+B*D76
2     +B*((TIME-69.5)/(1.0+ABS(TIME-69.5))-.0989*(TIME-69.5))
```


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```
3     +B*(1/(1+.3*((ABS(TIME-69.5))**2.0))-.1390415))
C- B(01)= -1.673302     [ -15.07] B(02)=-0.5105242E-02[  -3.30]
C- B(03)=-0.1870067     [  -4.65] B(04)=-0.1252240    [  -4.23]
C- B(05)= 0.5522154E-01[   1.78]
C- RB2=0.82 DW=1.23 S.E.E.= 0.3807421E-01 AAPE=  1.31
C- 1961-1981
C-
C ... SVBNET    BUSINESS SERV.          EMPLOYMENT
E  81 SVBNET=CSBUSY*EXP(B+B*TIME
2     +B*(1/(1+.3*((ABS(TIME-69.5))**2.0))-.1390415))
C- B(01)= -1.802026     [ -17.08] B(02)=-0.5718484E-02[  -3.89]
C- B(03)= 0.1413752     [   4.41]
C- RB2=0.67 DW=0.98 S.E.E.= 0.4007609E-01 AAPE=  1.28
C- 1961-1981
C-
C ... SVPNET    PERSONAL                EMPLOYMENT
E  75 SVPNET=CSPSY1*EXP(B+B*TIME)
C- B(01)=-0.7933574     [  -5.18] B(02)=-0.6178605E-02[  -2.87]
C- RB2=0.27 DW=0.25 S.E.E.= 0.5968580E-01 AAPE=  3.55
C- 1961-1981
C-
C ... SHONET    ACCOM+FOOD SERV.        EMPLOYMENT
E  80 SHONET=CSHOTY*EXP(B+B*TIME+B*D710N
2     +B*(1/(1+.3*((ABS(TIME-69.5))**2.0))-.1390415))
C- B(01)= -2.507923     [ -15.57] B(02)= 0.9268560E-02[   3.75]
C- B(03)=-0.1375981     [  -4.39] B(04)=-0.7557149E-01[  -2.63]
C- RB2=0.47 DW=1.06 S.E.E.= 0.3336332E-01 AAPE=  1.15
C- 1961-1981
C-
C ... SVMNET    MISC. SERV.             EMPLOYMENT
E  82 SVMNET=CSMISY*EXP(B+B*TIME+B*D710N
2     +B*(1/(1+.3*((ABS(TIME-69.5))**2.0))-.1390415))
C- B(01)= -2.310060     [ -10.96] B(02)= 0.7908301E-02[   2.44]
C- B(03)=-0.1731189     [  -4.22] B(04)=-0.1722501    [  -4.59]
C- RB2=0.59 DW=1.58 S.E.E.= 0.4365875E-01 AAPE=  1.78
C- 1961-1981
C-
O NOCON
C ... SGINET COM. SEV.(EX.REC.BUS.)  EMPLOYMENT
E  90 SGINET=SRLNET+SVPNET+SHONET+SVMNET
C-
C     SCTNET    TOTAL COMMER. SREV.   EMPLOMENT
E  79 SCTNET=SRLNET+SVPNET+SHONET+SVMNET+SRRNET+SVBNET
C-
O  CON
C ... SEDNET    EDUCATION SERV.         EMPLOYMENT
E  72 SEDNET=(CSEDY-.1977*GPLDPK)*EXP(B+B*
2     (1/(1+.05*((ABS(TIME-69.5))**1.3))-.1390415))
C- B(01)= -1.973142     [-115.74] B(02)=-0.3290011    [ -11.51]
C- RB2=0.87 DW=0.64 S.E.E.= 0.2095390E-01 AAPE=  0.83
C- 1961-1981
C-
```


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```
C ... SHSNET    HOSPITAL                EMPLOYMENT
E  78 SHSNET=(CSHOSY-GHDEPK)*EXP(B+B*TIME+B*D710N
2     +B*(1/(1+.3*((ABS(TIME-69.5))**2.0))-.1390415))
C- B(01)= -2.733931     [ -24.95] B(02)= 0.1695811E-01[  10.86]
C- B(03)=-0.2209568E-01[  -1.41] B(04)= 0.1152278E-01[   0.58]
C- RB2=0.95 DW=1.73 S.E.E.= 0.1628304E-01 AAPE=  0.80
C- 1966-1981
C-
C ... SPHNET    PHYSICIANS              EMPLOYMENT
E  77 SPHNET=CSDOCY*EXP(B+B*D710N
2     +B*(1/(1+.3*((ABS(TIME-69.5))**2.0))-.1390415))
C- B(01)= -3.569377     [ -72.46] B(02)= 0.1648732     [   3.11]
C- B(03)=-0.3431700E-01[  -0.42]
C- RB2=0.58 DW=1.93 S.E.E.= 0.7039653E-01 AAPE=  1.45
C- 1966-1981
C-
O NOCON
C ... SHENET    TOTAL HEAL.WEL. SER. EMPLOYMENT
E  76 SHENET=SPHNET+SHSNET
C-
C ... SUCNET    TOTAL INSTIT. SERV.   EMPLOYMENT
C     INSTITUTIONAL SERVICES
E  91 SUCNET=SEDNET+SPHNET+SHSNET
C-
C ... SVCNET    TOTAL SERV.           EMPLOYMENT
E  71 SVCNET=SUCNET+SCTNET
C-
O CON
C ... ADFNET    FED.  ADMIN.          EMPLOYMENT
E  85 ADFNET=ADFNET<-1>*((ADFDY-.9718*GFDEPK)/(ADFDY<-1>-.9718*GFDEPK<-1>))
C-
C ... ADPNET    PROV.  ADMIN.         EMPLOYMENT
E  86 ADPNET=EXP(B+B*ALOG(ADPRY-.7184*GPDEPK))
C- B(01)=-0.5963434     [  -2.16] B(02)= 0.7983178     [  20.97]
C- RB2=0.97 DW=1.11 S.E.E.= 0.4043075E-01 AAPE=  0.61
C- 1966-1981
C-
C ... ADMNET    MUN.  ADMIN.          EMPLOYMENT
E  87 ADMNET=EXP(B+B*ALOG(ADMUY-.7184*GLDEPK))
C- B(01)= 0.6588689     [   1.83] B(02)= 0.6553567     [  12.77]
C- RB2=0.92 DW=0.89 S.E.E.= 0.3262207E-01 AAPE=  0.53
C- 1966-1981
C-
O  NOCON
C ... ADTNET    TOTAL ADMIN.          EMPLOYMENT
E  84 ADTNET=ADFNET+ADPNET+ADMNET
C-
C ... TOTNET    TOTAL ECONOMY         EMPLOYMENT
E  93 TOTNET=AGRNET+FORNET+FSHNET+RESNET+MANNET+CONNET+
O2    UTLNET+TSPNET+TRDNET+FITNET+SVCNET+ADTNET
C-
O  CON
```


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F1000 CONTINUE

APPENDIX C

APPENDIX C

PROVINCIAL ESTIMATION RESULTS

The purpose of this appendix is to summarize the provincial estimation results. The OLS (ordinary least squares) estimates for each equation are shown below the equation. The interpretation of the model code and regression statistics is outlined in Appendix B.

The general taxonomy for variables in the Regional Industrial Model (RIM) has the following components:

(1) a single character prefix for the geographical area
- A- Newfoundland
- B- Prince Edward Island
- C- Nova Scotia
- D- New Brunswick
- E- Quebec
- F- Ontario
- G- Manitoba
- H- Saskatchewan
- I- Alberta
- J- British Columbia
- T- Territories (Yukon and NWT)
- M- Canada

(2) a three-character industry designator (see Appendix A)

(3) a two-character suffix, NT for employment and YK for Gross Domestic Product (71$)

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PROVINCIAL ESTIMATION RESULTS
PRIMARY AND SECONDARY EMPLOYMENT BY PROVINCE


C.1  PRIMARY AND SECONDARY EMPLOYMENT BY PROVINCE

B  36 I/O EMPLOYMENT PRIMARY AND SECONDARY
O ON
O NOXREF,NOSUM
S      IF(XCTL36.NE.1.0) GO TO 1000
O CON
O XREF
S      IF ((AAGONT<-1> .LT. 0.0001) .OR. (AAGRYK<-1> .LT. 0.0001))
F     *THEN
C ... AAGONT    NEWFOUNDLAND    OTHER/THAN PAID AGR.   I/O EMPLOYMENT
E   1 AAGONT=AAGRYK*(MAGONT/MAGRYK)
C-
F      ELSE
C ... AAGONT    NEWFOUNDLAND    OTHER/THAN PAID AGR.   I/O EMPLOYMENT
E   1 AAGONT=AAGRYK*(AAGONT<-1>/(AAGRYK<-1>))*
O2     ((MAGONT/MAGRYK)/(MAGONT<-1>/MAGRYK<-1>))
C-
F      END IF
S      IF ((BAGONT<-1> .LT. 0.0001) .OR. (BAGRYK<-1> .LT. 0.0001))
F     *THEN
C ... BAGONT    P.E.I.          OTHER/THAN PAID AGR.   I/O EMPLOYMENT
E   2 BAGONT=BAGRYK*(MAGONT/MAGRYK)
C-
F      ELSE
C ... BAGONT    P.E.I.          OTHER/THAN PAID AGR.   I/O EMPLOYMENT
E   2 BAGONT=BAGRYK*(BAGONT<-1>/(BAGRYK<-1>))*
O2     ((MAGONT/MAGRYK)/(MAGONT<-1>/MAGRYK<-1>))
C-
F      END IF
C ... CAGONT    NOVA SCOTIA     OTHER/THAN PAID AGR.   I/O EMPLOYMENT
E   3 CAGONT=1000*CAGRYK*(1/(B+B*1000*(MAGRYK/MAGONT)))
C- B(01)= -1766.709     [  -0.34] B(02)=  1.525994     [   2.37]
C- RB2=0.31 DW=1.52 S.E.E.=  1936.375     AAPE= 15.25
C- 1971-1981
C-
C ... DAGONT    NEW BRUNSWICK   OTHER/THAN PAID AGR.   I/O EMPLOYMENT
E   4 DAGONT=1000*DAGRYK*(1/(B+B*1000*(MAGRYK/MAGONT)))
C- B(01)= -5737.735     [  -0.64] B(02)=  1.815731     [   1.62]
C- RB2=0.14 DW=1.99 S.E.E.=  3368.526     AAPE= 20.79
C- 1971-1981
C-
S      IF ((EAGONT<-1> .LT. 0.0001) .OR. (EAGRYK<-1> .LT. 0.0001))
F     *THEN
C ... EAGONT    QUEBEC          OTHER/THAN PAID AGR.   I/O EMPLOYMENT
E   5 EAGONT=EAGRYK*(MAGONT/MAGRYK)
C-
F      ELSE
C ... EAGONT    QUEBEC          OTHER/THAN PAID AGR.   I/O EMPLOYMENT
E   5 EAGONT=EAGRYK*(EAGONT<-1>/(EAGRYK<-1>))*
O2     ((MAGONT/MAGRYK)/(MAGONT<-1>/MAGRYK<-1>))
C-
```


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```
F      END IF
S      IF ((FAGONT<-1> .LT. 0.0001) .OR. (FAGRYK<-1> .LT. 0.0001))
F     *THEN
C ... FAGONT    ONTARIO          OTHER/THAN PAID AGR.    I/O EMPLOYMENT
E   6 FAGONT=FAGRYK*(MAGONT/MAGRYK)
C-
F      ELSE
C ... FAGONT    ONTARIO          OTHER/THAN PAID AGR.    I/O EMPLOYMENT
E   6 FAGONT=FAGRYK*(FAGONT<-1>/(FAGRYK<-1>))*
02     ((MAGONT/MAGRYK)/(MAGONT<-1>/MAGRYK<-1>))
C-
F      END IF
S      IF ((GAGONT<-1> .LT. 0.0001) .OR. (GAGRYK<-1> .LT. 0.0001))
F     *THEN
C ... GAGONT    MANITOBA         OTHER/THAN PAID AGR.    I/O EMPLOYMENT
E   7 GAGONT=GAGRYK*(MAGONT/MAGRYK)
C-
F      ELSE
C ... GAGONT    MANITOBA         OTHER/THAN PAID AGR.    I/O EMPLOYMENT
E   7 GAGONT=GAGRYK*(GAGONT<-1>/(GAGRYK<-1>))*
02     ((MAGONT/MAGRYK)/(MAGONT<-1>/MAGRYK<-1>))
C-
F      END IF
C ... HAGONT    SASKATCHEWAN     OTHER/THAN PAID AGR.    I/O EMPLOYMENT
E   8 HAGONT=1000*HAGRYK*(1/(B+B*1000*(MAGRYK/MAGONT)))
C- B(01)= -814.6622     [  -0.30] B(02)=  1.002057     [   2.96]
C- RB2=0.44 DW=1.55 S.E.E.=  1016.953      AAPE= 10.84
C- 1971-1981
C-
S      IF ((IAGONT<-1> .LT. 0.0001) .OR. (IAGRYK<-1> .LT. 0.0001))
F     *THEN
C ... IAGONT    ALBERTA          OTHER/THAN PAID AGR.    I/O EMPLOYMENT
E   9 IAGONT=IAGRYK*(MAGONT/MAGRYK)
C-
F      ELSE
C ... IAGONT    ALBERTA          OTHER/THAN PAID AGR.    I/O EMPLOYMENT
E   9 IAGONT=IAGRYK*(IAGONT<-1>/(IAGRYK<-1>))*
02     ((MAGONT/MAGRYK)/(MAGONT<-1>/MAGRYK<-1>))
C-
F      END IF
S      IF ((JAGONT<-1> .LT. 0.0001) .OR. (JAGRYK<-1> .LT. 0.0001))
F     *THEN
C ... JAGONT    B.C.             OTHER/THAN PAID AGR.    I/O EMPLOYMENT
E  10 JAGONT=JAGRYK*(MAGONT/MAGRYK)
C-
F      ELSE
C ... JAGONT    B.C.             OTHER/THAN PAID AGR.    I/O EMPLOYMENT
E  10 JAGONT=JAGRYK*(JAGONT<-1>/(JAGRYK<-1>))*
02     ((MAGONT/MAGRYK)/(MAGONT<-1>/MAGRYK<-1>))
C-
F      END IF
S      IF ((TAGONT<-1> .LT. 0.0001) .OR. (TAGRYK<-1> .LT. 0.0001))
```


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PROVINCIAL ESTIMATION RESULTS
PRIMARY AND SECONDARY EMPLOYMENT BY PROVINCE

```
F    *THEN
C ... TAGONT    TERRITORIES     OTHER/THAN PAID AGR.    I/O EMPLOYMENT
E  11 TAGONT=TAGRYK*(MAGONT/MAGRYK)
C-
F     ELSE
C ... TAGONT    TERRITORIES     OTHER/THAN PAID AGR.    I/O EMPLOYMENT
E  11 TAGONT=TAGRYK*(TAGONT<-1>/(TAGRYK<-1>))*
O2     ((MAGONT/MAGRYK)/(MAGONT<-1>/MAGRYK<-1>))
C-
F     END IF
S     I='AAGONT'-'AAGONT'+1.0
S     J='AAGONT'+I-1
S     CALL SHRAD4(S(I),C(I),AGONET,ADJ,11,E(J),X(1),J,0)
C ... SAGONT    B.C.+TER.       OTHER/THAN PAID AGR.    I/O EMPLOYMENT
E  12 SAGONT=JAGONT+TAGONT
C-
C ... MAGONT    CANADA          OTHER/THAN PAID AGR.    I/O EMPLOYMENT
E  13 MAGONT=AAGONT+BAGONT+CAGONT+DAGONT+EAGONT+FAGONT+GAGONT+HAGONT+IAGONT+
O2     SAGONT
C-
S     IF ((AAGPNT<-1> .LT. 0.0001) .OR. (AAGRYK<-1> .LT. 0.0001))
F    *THEN
C ... AAGPNT    NEWFOUNDLAND    PAID AGRICULTURE        I/O EMPLOYMENT
E  14 AAGPNT=AAGRYK*(MAGPNT/MAGRYK)
C-
F     ELSE
C ... AAGPNT    NEWFOUNDLAND    PAID AGRICULTURE        I/O EMPLOYMENT
E  14 AAGPNT=AAGRYK*(AAGPNT<-1>/(AAGRYK<-1>))*
O2     ((MAGPNT/MAGRYK)/(MAGPNT<-1>/MAGRYK<-1>))
C-
F     END IF
S     IF ((BAGPNT<-1> .LT. 0.0001) .OR. (BAGRYK<-1> .LT. 0.0001))
F    *THEN
C ... BAGPNT    P.E.I.          PAID AGRICULTURE        I/O EMPLOYMENT
E  15 BAGPNT=BAGRYK*(MAGPNT/MAGRYK)
C-
F     ELSE
C ... BAGPNT    P.E.I.          PAID AGRICULTURE        I/O EMPLOYMENT
E  15 BAGPNT=BAGRYK*(BAGPNT<-1>/(BAGRYK<-1>))*
O2     ((MAGPNT/MAGRYK)/(MAGPNT<-1>/MAGRYK<-1>))
C-
F     END IF
S     IF ((CAGPNT<-1> .LT. 0.0001) .OR. (CAGRYK<-1> .LT. 0.0001))
F    *THEN
C ... CAGPNT    NOVA SCOTIA     PAID AGRICULTURE        I/O EMPLOYMENT
E  16 CAGPNT=CAGRYK*(MAGPNT/MAGRYK)
C-
F     ELSE
C ... CAGPNT    NOVA SCOTIA     PAID AGRICULTURE        I/O EMPLOYMENT
E  16 CAGPNT=CAGRYK*(CAGPNT<-1>/(CAGRYK<-1>))*
O2     ((MAGPNT/MAGRYK)/(MAGPNT<-1>/MAGRYK<-1>))
C-
```


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```
F      END IF
S      IF ((DAGPNT<-1> .LT. 0.0001) .OR. (DAGRYK<-1> .LT. 0.0001))
F     *THEN
C ... DAGPNT     NEW BRUNSWICK   PAID AGRICULTURE        I/O EMPLOYMENT
E  17 DAGPNT=DAGRYK*(MAGPNT/MAGRYK)
C-
F      ELSE
C ... DAGPNT     NEW BRUNSWICK   PAID AGRICULTURE        I/O EMPLOYMENT
E  17 DAGPNT=DAGRYK*(DAGPNT<-1>/(DAGRYK<-1>))*
02     ((MAGPNT/MAGRYK)/(MAGPNT<-1>/MAGRYK<-1>))
C-
F      END IF
S      IF ((EAGPNT<-1> .LT. 0.0001) .OR. (EAGRYK<-1> .LT. 0.0001))
F     *THEN
C ... EAGPNT     QUEBEC          PAID AGRICULTURE        I/O EMPLOYMENT
E  18 EAGPNT=EAGRYK*(MAGPNT/MAGRYK)
C-
F      ELSE
C ... EAGPNT     QUEBEC          PAID AGRICULTURE        I/O EMPLOYMENT
E  18 EAGPNT=EAGRYK*(EAGPNT<-1>/(EAGRYK<-1>))*
02     ((MAGPNT/MAGRYK)/(MAGPNT<-1>/MAGRYK<-1>))
C-
F      END IF
C ... FAGPNT     ONTARIO         PAID AGRICULTURE        I/O EMPLOYMENT
E  19 FAGPNT=1000*FAGRYK*(1/(B+B*1000*(MAGRYK/MAGPNT)))
C- B(01)=  942.2477     [   0.11] B(02)= 0.8348766     [   1.92]
C- RB2=0.21 DW=0.83 S.E.E.=  1562.951      AAPE=  7.36
C- 1971-1981
C-
S      IF ((GAGPNT<-1> .LT. 0.0001) .OR. (GAGRYK<-1> .LT. 0.0001))
F     *THEN
C ... GAGPNT     MANITOBA        PAID AGRICULTURE        I/O EMPLOYMENT
E  20 GAGPNT=GAGRYK*(MAGPNT/MAGRYK)
C-
F      ELSE
C ... GAGPNT     MANITOBA        PAID AGRICULTURE        I/O EMPLOYMENT
E  20 GAGPNT=GAGRYK*(GAGPNT<-1>/(GAGRYK<-1>))*
02     ((MAGPNT/MAGRYK)/(MAGPNT<-1>/MAGRYK<-1>))
C-
F      END IF
S      IF ((HAGPNT<-1> .LT. 0.0001) .OR. (HAGRYK<-1> .LT. 0.0001))
F     *THEN
C ... HAGPNT     SASKATCHEWAN    PAID AGRICULTURE        I/O EMPLOYMENT
E  21 HAGPNT=HAGRYK*(MAGPNT/MAGRYK)
C-
F      ELSE
C ... HAGPNT     SASKATCHEWAN    PAID AGRICULTURE        I/O EMPLOYMENT
E  21 HAGPNT=HAGRYK*(HAGPNT<-1>/(HAGRYK<-1>))*
02     ((MAGPNT/MAGRYK)/(MAGPNT<-1>/MAGRYK<-1>))
C-
F      END IF
S      IF ((IAGPNT<-1> .LT. 0.0001) .OR. (IAGRYK<-1> .LT. 0.0001))
```


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```
F     *THEN
C ... IAGPNT     ALBERTA          PAID AGRICULTURE        I/O EMPLOYMENT
E  22 IAGPNT=IAGRYK*(MAGPNT/MAGRYK)
C-
F      ELSE
C ... IAGPNT     ALBERTA          PAID AGRICULTURE        I/O EMPLOYMENT
E  22 IAGPNT=IAGRYK*(IAGPNT<-1>/(IAGRYK<-1>))*
O2     ((MAGPNT/MAGRYK)/(MAGPNT<-1>/MAGRYK<-1>))
C-
F      END IF
S      IF ((JAGPNT<-1> .LT. 0.0001) .OR. (JAGRYK<-1> .LT. 0.0001))
F     *THEN
C ... JAGPNT     B.C.             PAID AGRICULTURE        I/O EMPLOYMENT
E  23 JAGPNT=JAGRYK*(MAGPNT/MAGRYK)
C-
F      ELSE
C ... JAGPNT     B.C.             PAID AGRICULTURE        I/O EMPLOYMENT
E  23 JAGPNT=JAGRYK*(JAGPNT<-1>/(JAGRYK<-1>))*
O2     ((MAGPNT/MAGRYK)/(MAGPNT<-1>/MAGRYK<-1>))
C-
F      END IF
S      IF ((TAGPNT<-1> .LT. 0.0001) .OR. (TAGRYK<-1> .LT. 0.0001))
F     *THEN
C ... TAGPNT     TERRITORIES      PAID AGRICULTURE        I/O EMPLOYMENT
E  24 TAGPNT=TAGRYK*(MAGPNT/MAGRYK)
C-
F      ELSE
C ... TAGPNT     TERRITORIES      PAID AGRICULTURE        I/O EMPLOYMENT
E  24 TAGPNT=TAGRYK*(TAGPNT<-1>/(TAGRYK<-1>))*
O2     ((MAGPNT/MAGRYK)/(MAGPNT<-1>/MAGRYK<-1>))
C-
F      END IF
S      I='AAGPNT'-'AAGONT'+1.0
S      J='AAGONT'+I-1
S      CALL SHRAD4(S(I),C(I),AGPNET,ADJ,11,E(J),X(1),J,0)
C ... SAGPNT     B.C.+TER.        PAID AGRICULTURE        I/O EMPLOYMENT
E  25 SAGPNT=JAGPNT+TAGPNT
C-
C ... MAGPNT     CANADA           PAID AGRICULTURE        I/O EMPLOYMENT
E  26 MAGPNT=AAGPNT+BAGPNT+CAGPNT+DAGPNT+EAGPNT+FAGPNT+GAGPNT+HAGPNT+IAGPNT+
O2     SAGPNT
C-
S      IF ((AFORNT<-1> .LT. 0.0001) .OR. (AFORYK<-1> .LT. 0.0001))
F     *THEN
C ... AFORNT     NEWFOUNDLAND     FORESTRY                I/O EMPLOYMENT
E  27 AFORNT=AFORYK*(MFORNT/MFORYK)
C-
F      ELSE
C ... AFORNT     NEWFOUNDLAND     FORESTRY                I/O EMPLOYMENT
E  27 AFORNT=AFORYK*(AFORNT<-1>/(AFORYK<-1>))*
O2     ((MFORNT/MFORYK)/(MFORNT<-1>/MFORYK<-1>))
C-
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```
F      END IF
S      IF ((BFORNT<-1> .LT. 0.0001) .OR. (BFORYK<-1> .LT. 0.0001))
F     *THEN
C ... BFORNT    P.E.I.          FORESTRY                I/O EMPLOYMENT
E  28 BFORNT=BFORYK*(MFORNT/MFORYK)
C-
F      ELSE
C ... BFORNT    P.E.I.          FORESTRY                I/O EMPLOYMENT
E  28 BFORNT=BFORYK*(BFORNT<-1>/(BFORYK<-1>))*
02     ((MFORNT/MFORYK)/(MFORNT<-1>/MFORYK<-1>))
C-
F      END IF
S      IF ((CFORNT<-1> .LT. 0.0001) .OR. (CFORYK<-1> .LT. 0.0001))
F     *THEN
C ... CFORNT    NOVA SCOTIA     FORESTRY                I/O EMPLOYMENT
E  29 CFORNT=CFORYK*(MFORNT/MFORYK)
C-
F      ELSE
C ... CFORNT    NOVA SCOTIA     FORESTRY                I/O EMPLOYMENT
E  29 CFORNT=CFORYK*(CFORNT<-1>/(CFORYK<-1>))*
02     ((MFORNT/MFORYK)/(MFORNT<-1>/MFORYK<-1>))
C-
F      END IF
C ... DFORNT    NEW BRUNSWICK   FORESTRY                I/O EMPLOYMENT
E  30 DFORNT=1000*DFORYK*(1/(B+B*1000*(MFORYK/MFORNT)))
C- B(01)= -2200.960     [  -0.39] B(02)= 0.9465632     [   1.74]
C- RB2=0.17 DW=0.84 S.E.E.=  915.4254     AAPE=  8.54
C- 1971-1981
C-
S      IF ((EFORNT<-1> .LT. 0.0001) .OR. (EFORYK<-1> .LT. 0.0001))
F     *THEN
C ... EFORNT    QUEBEC          FORESTRY                I/O EMPLOYMENT
E  31 EFORNT=EFORYK*(MFORNT/MFORYK)
C-
F      ELSE
C ... EFORNT    QUEBEC          FORESTRY                I/O EMPLOYMENT
E  31 EFORNT=EFORYK*(EFORNT<-1>/(EFORYK<-1>))*
02     ((MFORNT/MFORYK)/(MFORNT<-1>/MFORYK<-1>))
C-
F      END IF
S      IF ((FFORNT<-1> .LT. 0.0001) .OR. (FFORYK<-1> .LT. 0.0001))
F     *THEN
C ... FFORNT    ONTARIO         FORESTRY                I/O EMPLOYMENT
E  32 FFORNT=FFORYK*(MFORNT/MFORYK)
C-
F      ELSE
C ... FFORNT    ONTARIO         FORESTRY                I/O EMPLOYMENT
E  32 FFORNT=FFORYK*(FFORNT<-1>/(FFORYK<-1>))*
02     ((MFORNT/MFORYK)/(MFORNT<-1>/MFORYK<-1>))
C-
F      END IF
S      IF ((GFORNT<-1> .LT. 0.0001) .OR. (GFORYK<-1> .LT. 0.0001))
```


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F     *THEN
C ... GFORNT     MANITOBA          FORESTRY                  I/O EMPLOYMENT
E   33 GFORNT=GFORYK*(MFORNT/MFORYK)
C-
F      ELSE
C ... GFORNT     MANITOBA          FORESTRY                  I/O EMPLOYMENT
E   33 GFORNT=GFORYK*(GFORNT<-1>/(GFORYK<-1>))*
O2       ((MFORNT/MFORYK)/(MFORNT<-1>/MFORYK<-1>))
C-
F      END IF
S      IF ((HFORNT<-1> .LT. 0.0001) .OR. (HFORYK<-1> .LT. 0.0001))
F     *THEN
C ... HFORNT     SASKATCHEWAN      FORESTRY                  I/O EMPLOYMENT
E   34 HFORNT=HFORYK*(MFORNT/MFORYK)
C-
F      ELSE
C ... HFORNT     SASKATCHEWAN      FORESTRY                  I/O EMPLOYMENT
E   34 HFORNT=HFORYK*(HFORNT<-1>/(HFORYK<-1>))*
O2       ((MFORNT/MFORYK)/(MFORNT<-1>/MFORYK<-1>))
C-
F      END IF
S      IF ((IFORNT<-1> .LT. 0.0001) .OR. (IFORYK<-1> .LT. 0.0001))
F     *THEN
C ... IFORNT     ALBERTA           FORESTRY                  I/O EMPLOYMENT
E   35 IFORNT=IFORYK*(MFORNT/MFORYK)
C-
F      ELSE
C ... IFORNT     ALBERTA           FORESTRY                  I/O EMPLOYMENT
E   35 IFORNT=IFORYK*(IFORNT<-1>/(IFORYK<-1>))*
O2       ((MFORNT/MFORYK)/(MFORNT<-1>/MFORYK<-1>))
C-
F      END IF
C ... JFORNT     B.C.              FORESTRY                  I/O EMPLOYMENT
E   36 JFORNT=1000*JFORYK*(1/(B+B*1000*(MFORYK/MFORNT)))
C- B(01)=  1821.389     [   0.27] B(02)=  1.333701     [   2.09]
C- RB2=0.25 DW=0.98 S.E.E.=  1071.135     AAPE=  5.10
C- 1971-1981
C-
S      IF ((TFORNT<-1> .LT. 0.0001) .OR. (TFORYK<-1> .LT. 0.0001))
F     *THEN
C ... TFORNT     TERRITORIES       FORESTRY                  I/O EMPLOYMENT
E   37 TFORNT=TFORYK*(MFORNT/MFORYK)
C-
F      ELSE
C ... TFORNT     TERRITORIES       FORESTRY                  I/O EMPLOYMENT
E   37 TFORNT=TFORYK*(TFORNT<-1>/(TFORYK<-1>))*
O2       ((MFORNT/MFORYK)/(MFORNT<-1>/MFORYK<-1>))
C-
F      END IF
S      I='AFORNT'-'AAGONT'+1.0
S      J='AAGONT'+I-1
S      CALL SHRAD4(S(I),C(I),FORNET,ADJ,11,E(J),X(I),J,0)
```

```
C ... SFORNT    B.C.+TER.        FORESTRY                I/O EMPLOYMENT
E  38 SFORNT=JFORNT+TFORNT
C-
C ... MFORNT    CANADA           FORESTRY                I/O EMPLOYMENT
E  39 MFORNT=AFORNT+BFORNT+CFORNT+DFORNT+EFORNT+FFORNT+GFORNT+HFORNT+IFORNT+
O2    SFORNT
C-
C ... AFSHNT    NEWFOUNDLAND     FISHING+TRAPPING        I/O EMPLOYMENT
E  40 AFSHNT=1000*AFSHYK*(1/(B+B*1000*(MFSHYK/MFSHNT)))
C- B(01)= -1584.048     [  -1.17] B(02)= 0.9305439     [   4.55]
C- RB2=0.66 DW=2.01 S.E.E.=  630.7463     AAPE=  8.89
C- 1971-1981
C-
S     IF ((BFSHNT<-1> .LT. 0.0001) .OR. (BFSHYK<-1> .LT. 0.0001))
F    *THEN
C ... BFSHNT    P.E.I.           FISHING+TRAPPING        I/O EMPLOYMENT
E  41 BFSHNT=BFSHYK*(MFSHNT/MFSHYK)
C-
F     ELSE
C ... BFSHNT    P.E.I.           FISHING+TRAPPING        I/O EMPLOYMENT
E  41 BFSHNT=BFSHYK*(BFSHNT<-1>/(BFSHYK<-1>))*
O2    ((MFSHNT/MFSHYK)/(MFSHNT<-1>/MFSHYK<-1>))
C-
F     END IF
S     IF ((CFSHNT<-1> .LT. 0.0001) .OR. (CFSHYK<-1> .LT. 0.0001))
F    *THEN
C ... CFSHNT    NOVA SCOTIA      FISHING+TRAPPING        I/O EMPLOYMENT
E  42 CFSHNT=CFSHYK*(MFSHNT/MFSHYK)
C-
F     ELSE
C ... CFSHNT    NOVA SCOTIA      FISHING+TRAPPING        I/O EMPLOYMENT
E  42 CFSHNT=CFSHYK*(CFSHNT<-1>/(CFSHYK<-1>))*
O2    ((MFSHNT/MFSHYK)/(MFSHNT<-1>/MFSHYK<-1>))
C-
F     END IF
C ... DFSHNT    NEW BRUNSWICK    FISHING+TRAPPING        I/O EMPLOYMENT
E  43 DFSHNT=1000*DFSHYK*(1/(B+B*1000*(MFSHYK/MFSHNT)))
C- B(01)= -4295.281     [  -1.61] B(02)=  1.749931     [   4.34]
C- RB2=0.64 DW=2.20 S.E.E.=  1244.128     AAPE= 13.39
C- 1971-1981
C-
S     IF ((EFSHNT<-1> .LT. 0.0001) .OR. (EFSHYK<-1> .LT. 0.0001))
F    *THEN
C ... EFSHNT    QUEBEC           FISHING+TRAPPING        I/O EMPLOYMENT
E  44 EFSHNT=EFSHYK*(MFSHNT/MFSHYK)
C-
F     ELSE
C ... EFSHNT    QUEBEC           FISHING+TRAPPING        I/O EMPLOYMENT
E  44 EFSHNT=EFSHYK*(EFSHNT<-1>/(EFSHYK<-1>))*
O2    ((MFSHNT/MFSHYK)/(MFSHNT<-1>/MFSHYK<-1>))
C-
F     END IF
```


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C ... FFSHNT    ONTARIO          FISHING+TRAPPING        I/O EMPLOYMENT
E  45 FFSHNT=1000*FFSHYK*(1/(B+B*1000*(MFSHYK/MFSHNT)))
C- B(01)=  507.3811    [   0.16] B(02)=  1.077986    [   2.23]
C- RB2=0.29 DW=1.20 S.E.E.=  1489.486     AAPE= 15.55
C- 1971-1981
C-
C ... GFSHNT    MANITOBA         FISHING+TRAPPING        I/O EMPLOYMENT
E  46 GFSHNT=1000*GFSHYK*(1/(B+B*1000*(MFSHYK/MFSHNT)))
C- B(01)= -711.1255    [  -0.25] B(02)= 0.7997053    [   1.88]
C- RB2=0.20 DW=1.59 S.E.E.=  1310.162     AAPE= 15.97
C- 1971-1981
C-
S     IF ((HFSHNT<-1> .LT. 0.0001) .OR. (HFSHYK<-1> .LT. 0.0001))
F    *THEN
C ... HFSHNT    SASKATCHEWAN     FISHING+TRAPPING        I/O EMPLOYMENT
E  47 HFSHNT=HFSHYK*(MFSHNT/MFSHYK)
C-
F     ELSE
C ... HFSHNT    SASKATCHEWAN     FISHING+TRAPPING        I/O EMPLOYMENT
E  47 HFSHNT=HFSHYK*(HFSHNT<-1>/(HFSHYK<-1>))*
O2    ((MFSHNT/MFSHYK)/(MFSHNT<-1>/MFSHYK<-1>))
C-
F     END IF
C ... IFSHNT    ALBERTA          FISHING+TRAPPING        I/O EMPLOYMENT
E  48 IFSHNT=1000*IFSHYK*(1/(B+B*1000*(MFSHYK/MFSHNT)))
C- B(01)= -238.6765    [  -0.19] B(02)= 0.3750447    [   2.01]
C- RB2=0.23 DW=2.17 S.E.E.=  577.3922     AAPE= 19.27
C- 1971-1981
C-
C ... JFSHNT    B.C.             FISHING+TRAPPING        I/O EMPLOYMENT
E  49 JFSHNT=1000*JFSHYK*(1/(B+B*1000*(MFSHYK/MFSHNT)))
C- B(01)=  271.2109    [   0.04] B(02)=  1.731486    [   1.71]
C- RB2=0.16 DW=1.13 S.E.E.=  3125.024     AAPE= 19.54
C- 1971-1981
C-
S     IF ((TFSHNT<-1> .LT. 0.0001) .OR. (TFSHYK<-1> .LT. 0.0001))
F    *THEN
C ... TFSHNT    TERRITORIES      FISHING+TRAPPING        I/O EMPLOYMENT
E  50 TFSHNT=TFSHYK*(MFSHNT/MFSHYK)
C-
F     ELSE
C ... TFSHNT    TERRITORIES      FISHING+TRAPPING        I/O EMPLOYMENT
E  50 TFSHNT=TFSHYK*(TFSHNT<-1>/(TFSHYK<-1>))*
O2    ((MFSHNT/MFSHYK)/(MFSHNT<-1>/MFSHYK<-1>))
C-
F     END IF
S     I='AFSHNT'-'AAGONT'+1.0
S     J='AAGONT'+I-1
S     CALL SHRAD4(S(I),C(I),FSHNET,ADJ,11,E(J),X(1),J,0)
C ... SFSHNT    B.C.+TER.        FISHING+TRAPPING        I/O EMPLOYMENT
E  51 SFSHNT=JFSHNT+TFSHNT
C-
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C ... MFSHNT    CANADA          FISHING+TRAPPING        I/O EMPLOYMENT
E  52 MFSHNT=AFSHNT+BFSHNT+CFSHNT+DFSHNT+EFSHNT+FFSHNT+GFSHNT+HFSHNT+IFSHNT+
O2    SFSHNT
C-
C ... ARE1NT    NEWFOUNDLAND    METAL MINING            I/O EMPLOYMENT
E  66 ARE1NT=1000*ARE1YK*(1/(B+B*1000*(MRE1YK/MRE1NT)))
C- B(01)= -11523.90    [  -0.95] B(02)=  2.015136    [   3.13]
C- RB2=0.40 DW=1.08 S.E.E.=  3620.046     AAPE= 11.01
C- 1968-1981
C-
S     IF ((BRE1NT<-1> .LT. 0.0001) .OR. (BRE1YK<-1> .LT. 0.0001))
F    *THEN
C ... BRE1NT    P.E.I.          METAL MINING            I/O EMPLOYMENT
E  67 BRE1NT=BRE1YK*(MRE1NT/MRE1YK)
C-
F     ELSE
C ... BRE1NT    P.E.I.          METAL MINING            I/O EMPLOYMENT
E  67 BRE1NT=BRE1YK*(BRE1NT<-1>/(BRE1YK<-1>))*
O2    ((MRE1NT/MRE1YK)/(MRE1NT<-1>/MRE1YK<-1>))
C-
F     END IF
S     IF ((CRE1NT<-1> .LT. 0.0001) .OR. (CRE1YK<-1> .LT. 0.0001))
F    *THEN
C ... CRE1NT    NOVA SCOTIA     METAL MINING            I/O EMPLOYMENT
E  68 CRE1NT=CRE1YK*(MRE1NT/MRE1YK)
C-
F     ELSE
C ... CRE1NT    NOVA SCOTIA     METAL MINING            I/O EMPLOYMENT
E  68 CRE1NT=CRE1YK*(CRE1NT<-1>/(CRE1YK<-1>))*
O2    ((MRE1NT/MRE1YK)/(MRE1NT<-1>/MRE1YK<-1>))
C-
F     END IF
S     IF ((DRE1NT<-1> .LT. 0.0001) .OR. (DRE1YK<-1> .LT. 0.0001))
F    *THEN
C ... DRE1NT    NEW BRUNSWICK   METAL MINING            I/O EMPLOYMENT
E  69 DRE1NT=DRE1YK*(MRE1NT/MRE1YK)
C-
F     ELSE
C ... DRE1NT    NEW BRUNSWICK   METAL MINING            I/O EMPLOYMENT
E  69 DRE1NT=DRE1YK*(DRE1NT<-1>/(DRE1YK<-1>))*
O2    ((MRE1NT/MRE1YK)/(MRE1NT<-1>/MRE1YK<-1>))
C-
F     END IF
S     IF ((ERE1NT<-1> .LT. 0.0001) .OR. (ERE1YK<-1> .LT. 0.0001))
F    *THEN
C ... ERE1NT    QUEBEC          METAL MINING            I/O EMPLOYMENT
E  70 ERE1NT=ERE1YK*(MRE1NT/MRE1YK)
C-
F     ELSE
C ... ERE1NT    QUEBEC          METAL MINING            I/O EMPLOYMENT
E  70 ERE1NT=ERE1YK*(ERE1NT<-1>/(ERE1YK<-1>))*
O2    ((MRE1NT/MRE1YK)/(MRE1NT<-1>/MRE1YK<-1>))
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C-
F      END IF
C ... FRE1NT    ONTARIO          METAL MINING            I/O EMPLOYMENT
E  71 FRE1NT=1000*FRE1YK*(1/(B+B*1000*(MRE1YK/MRE1NT)))
C- B(01)= -5516.650     [  -1.40] B(02)=  1.209116     [   5.78]
C- RB2=0.71 DW=1.33 S.E.E.=  1176.361     AAPE=  4.89
C- 1968-1981
C-
C ... GRE1NT    MANITOBA         METAL MINING            I/O EMPLOYMENT
E  72 GRE1NT=1000*GRE1YK*(1/(B+B*1000*(MRE1YK/MRE1NT)))
C- B(01)=  3574.322     [   1.27] B(02)= 0.7718011     [   5.17]
C- RB2=0.66 DW=2.35 S.E.E.=  838.1560     AAPE=  3.12
C- 1968-1981
C-
S      IF ((HRE1NT<-1> .LT. 0.0001) .OR. (HRE1YK<-1> .LT. 0.0001))
F     *THEN
C ... HRE1NT    SASKATCHEWAN     METAL MINING            I/O EMPLOYMENT
E  73 HRE1NT=HRE1YK*(MRE1NT/MRE1YK)
C-
F      ELSE
C ... HRE1NT    SASKATCHEWAN     METAL MINING            I/O EMPLOYMENT
E  73 HRE1NT=HRE1YK*(HRE1NT<-1>/(HRE1YK<-1>))*
O2     ((MRE1NT/MRE1YK)/(MRE1NT<-1>/MRE1YK<-1>))
C-
F      END IF
S      IF ((IRE1NT<-1> .LT. 0.0001) .OR. (IRE1YK<-1> .LT. 0.0001))
F     *THEN
C ... IRE1NT    ALBERTA          METAL MINING            I/O EMPLOYMENT
E  74 IRE1NT=IRE1YK*(MRE1NT/MRE1YK)
C-
F      ELSE
C ... IRE1NT    ALBERTA          METAL MINING            I/O EMPLOYMENT
E  74 IRE1NT=IRE1YK*(IRE1NT<-1>/(IRE1YK<-1>))*
O2     ((MRE1NT/MRE1YK)/(MRE1NT<-1>/MRE1YK<-1>))
C-
F      END IF
S      IF ((JRE1NT<-1> .LT. 0.0001) .OR. (JRE1YK<-1> .LT. 0.0001))
F     *THEN
C ... JRE1NT    B.C.             METAL MINING            I/O EMPLOYMENT
E  75 JRE1NT=JRE1YK*(MRE1NT/MRE1YK)
C-
F      ELSE
C ... JRE1NT    B.C.             METAL MINING            I/O EMPLOYMENT
E  75 JRE1NT=JRE1YK*(JRE1NT<-1>/(JRE1YK<-1>))*
O2     ((MRE1NT/MRE1YK)/(MRE1NT<-1>/MRE1YK<-1>))
C-
F      END IF
S      IF ((TRE1NT<-1> .LT. 0.0001) .OR. (TRE1YK<-1> .LT. 0.0001))
F     *THEN
C ... TRE1NT    TERRITORIES      METAL MINING            I/O EMPLOYMENT
E  76 TRE1NT=TRE1YK*(MRE1NT/MRE1YK)
C-
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F      ELSE
C ... TRE1NT    TERRITORIES     METAL MINING            I/O EMPLOYMENT
E  76 TRE1NT=TRE1YK*(TRE1NT<-1>/(TRE1YK<-1>))*
O2     ((MRE1NT/MRE1YK)/(MRE1NT<-1>/MRE1YK<-1>))
C-
F      END IF
S      I='ARE1NT'-'AAGONT'+1.0
S      J='AAGONT'+I-1
S      CALL SHRAD4(S(I),C(I),RE1NET,ADJ,11,E(J),X(1),J,0)
C ... SRE1NT    B.C.+TER.       METAL MINING            I/O EMPLOYMENT
E  77 SRE1NT=JRE1NT+TRE1NT
C-
C ... MRE1NT    CANADA          METAL MINING            I/O EMPLOYMENT
E  78 MRE1NT=ARE1NT+BRE1NT+CRE1NT+DRE1NT+ERE1NT+FRE1NT+GRE1NT+HRE1NT+IRE1NT+
O2     SRE1NT
C-
S      IF ((ARE2NT<-1> .LT. 0.0001) .OR. (ARE2YK<-1> .LT. 0.0001))
F     *THEN
C ... ARE2NT    NEWFOUNDLAND    COAL                    I/O EMPLOYMENT
E 105 ARE2NT=ARE2YK*(MRE2NT/MRE2YK)
C-
F      ELSE
C ... ARE2NT    NEWFOUNDLAND    COAL                    I/O EMPLOYMENT
E 105 ARE2NT=ARE2YK*(ARE2NT<-1>/(ARE2YK<-1>))*
O2     ((MRE2NT/MRE2YK)/(MRE2NT<-1>/MRE2YK<-1>))
C-
F      END IF
S      IF ((BRE2NT<-1> .LT. 0.0001) .OR. (BRE2YK<-1> .LT. 0.0001))
F     *THEN
C ... BRE2NT    P.E.I.          COAL                    I/O EMPLOYMENT
E 106 BRE2NT=BRE2YK*(MRE2NT/MRE2YK)
C-
F      ELSE
C ... BRE2NT    P.E.I.          COAL                    I/O EMPLOYMENT
E 106 BRE2NT=BRE2YK*(BRE2NT<-1>/(BRE2YK<-1>))*
O2     ((MRE2NT/MRE2YK)/(MRE2NT<-1>/MRE2YK<-1>))
C-
F      END IF
C ... CRE2NT    NOVA SCOTIA     COAL                    I/O EMPLOYMENT
E 107 CRE2NT=1000*CRE2YK*(1/(B+B*1000*(MRE2YK/MRE2NT)))
C- B(01)= -5228.583     [  -1.42] B(02)=  1.227738     [   4.52]
C- RB2=0.60 DW=1.05 S.E.E.=  1862.279     AAPE= 14.99
C- 1968-1981
C-
S      IF ((DRE2NT<-1> .LT. 0.0001) .OR. (DRE2YK<-1> .LT. 0.0001))
F     *THEN
C ... DRE2NT    NEW BRUNSWICK   COAL                    I/O EMPLOYMENT
E 108 DRE2NT=DRE2YK*(MRE2NT/MRE2YK)
C-
F      ELSE
C ... DRE2NT    NEW BRUNSWICK   COAL                    I/O EMPLOYMENT
E 108 DRE2NT=DRE2YK*(DRE2NT<-1>/(DRE2YK<-1>))*
```

```
O2     ((MRE2NT/MRE2YK)/(MRE2NT<-1>/MRE2YK<-1>))
C-
F      END IF
S      IF ((ERE2NT<-1> .LT. 0.0001) .OR. (ERE2YK<-1> .LT. 0.0001))
F     *THEN
C ... ERE2NT     QUEBEC          COAL                    I/O EMPLOYMENT
E 109 ERE2NT=ERE2YK*(MRE2NT/MRE2YK)
C-
F      ELSE
C ... ERE2NT     QUEBEC          COAL                    I/O EMPLOYMENT
E 109 ERE2NT=ERE2YK*(ERE2NT<-1>/(ERE2YK<-1>))*
O2     ((MRE2NT/MRE2YK)/(MRE2NT<-1>/MRE2YK<-1>))
C-
F      END IF
S      IF ((FRE2NT<-1> .LT. 0.0001) .OR. (FRE2YK<-1> .LT. 0.0001))
F     *THEN
C ... FRE2NT     ONTARIO         COAL                    I/O EMPLOYMENT
E 110 FRE2NT=FRE2YK*(MRE2NT/MRE2YK)
C-
F      ELSE
C ... FRE2NT     ONTARIO         COAL                    I/O EMPLOYMENT
E 110 FRE2NT=FRE2YK*(FRE2NT<-1>/(FRE2YK<-1>))*
O2     ((MRE2NT/MRE2YK)/(MRE2NT<-1>/MRE2YK<-1>))
C-
F      END IF
S      IF ((GRE2NT<-1> .LT. 0.0001) .OR. (GRE2YK<-1> .LT. 0.0001))
F     *THEN
C ... GRE2NT     MANITOBA        COAL                    I/O EMPLOYMENT
E 111 GRE2NT=GRE2YK*(MRE2NT/MRE2YK)
C-
F      ELSE
C ... GRE2NT     MANITOBA        COAL                    I/O EMPLOYMENT
E 111 GRE2NT=GRE2YK*(GRE2NT<-1>/(GRE2YK<-1>))*
O2     ((MRE2NT/MRE2YK)/(MRE2NT<-1>/MRE2YK<-1>))
C-
F      END IF
C ... HRE2NT     SASKATCHEWAN    COAL                    I/O EMPLOYMENT
E 112 HRE2NT=1000*HRE2YK*(1/(B+B*1000*(MRE2YK/MRE2NT)))
C- B(01)= -1150.600     [  -0.10] B(02)=  2.065725     [   2.46]
C- RB2=0.28 DW=0.87 S.E.E.=  5747.761     AAPE= 15.87
C- 1968-1981
C-
C ... IRE2NT     ALBERTA         COAL                    I/O EMPLOYMENT
E 113 IRE2NT=1000*IRE2YK*(1/(B+B*1000*(MRE2YK/MRE2NT)))
C- B(01)=  2666.154     [   0.82] B(02)=  1.008628     [   4.22]
C- RB2=0.56 DW=1.27 S.E.E.=  1637.814     AAPE=  8.19
C- 1968-1981
C-
S      IF ((JRE2NT<-1> .LT. 0.0001) .OR. (JRE2YK<-1> .LT. 0.0001))
F     *THEN
C ... JRE2NT     B.C.            COAL                    I/O EMPLOYMENT
E 114 JRE2NT=JRE2YK*(MRE2NT/MRE2YK)
```

```
C-
F     ELSE
C ... JRE2NT    B.C.            COAL                    I/O EMPLOYMENT
E 114 JRE2NT=JRE2YK*(JRE2NT<-1>/(JRE2YK<-1>))*
O2    ((MRE2NT/MRE2YK)/(MRE2NT<-1>/MRE2YK<-1>))
C-
F     END IF
S     IF ((TRE2NT<-1> .LT. 0.0001) .OR. (TRE2YK<-1> .LT. 0.0001))
F    *THEN
C ... TRE2NT    TERRITORIES     COAL                    I/O EMPLOYMENT
E 115 TRE2NT=TRE2YK*(MRE2NT/MRE2YK)
C-
F     ELSE
C ... TRE2NT    TERRITORIES     COAL                    I/O EMPLOYMENT
E 115 TRE2NT=TRE2YK*(TRE2NT<-1>/(TRE2YK<-1>))*
O2    ((MRE2NT/MRE2YK)/(MRE2NT<-1>/MRE2YK<-1>))
C-
F     END IF
S     I='ARE2NT'-'AAGONT'+1.0
S     J='AAGONT'+I-1
S     CALL SHRAD4(S(I),C(I),RE2NET,ADJ,11,E(J),X(1),J,0)
C ... SRE2NT    B.C.+TER.       COAL                    I/O EMPLOYMENT
E 116 SRE2NT=JRE2NT+TRE2NT
C-
C ... MRE2NT    CANADA          COAL                    I/O EMPLOYMENT
E 117 MRE2NT=ARE2NT+BRE2NT+CRE2NT+DRE2NT+ERE2NT+FRE2NT+GRE2NT+HRE2NT+IRE2NT+
O2    SRE2NT
C-
S     IF ((ARE3NT<-1> .LT. 0.0001) .OR. (ARE3YK<-1> .LT. 0.0001))
F    *THEN
C ... ARE3NT    NEWFOUNDLAND    PETROL+GAS              I/O EMPLOYMENT
E 131 ARE3NT=ARE3YK*(MRE3NT/MRE3YK)
C-
F     ELSE
C ... ARE3NT    NEWFOUNDLAND    PETROL+GAS              I/O EMPLOYMENT
E 131 ARE3NT=ARE3YK*(ARE3NT<-1>/(ARE3YK<-1>))*
O2    ((MRE3NT/MRE3YK)/(MRE3NT<-1>/MRE3YK<-1>))
C-
F     END IF
S     IF ((BRE3NT<-1> .LT. 0.0001) .OR. (BRE3YK<-1> .LT. 0.0001))
F    *THEN
C ... BRE3NT    P.E.I.          PETROL+GAS              I/O EMPLOYMENT
E 132 BRE3NT=BRE3YK*(MRE3NT/MRE3YK)
C-
F     ELSE
C ... BRE3NT    P.E.I.          PETROL+GAS              I/O EMPLOYMENT
E 132 BRE3NT=BRE3YK*(BRE3NT<-1>/(BRE3YK<-1>))*
O2    ((MRE3NT/MRE3YK)/(MRE3NT<-1>/MRE3YK<-1>))
C-
F     END IF
S     IF ((CRE3NT<-1> .LT. 0.0001) .OR. (CRE3YK<-1> .LT. 0.0001))
F    *THEN
```


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PROVINCIAL ESTIMATION RESULTS
PRIMARY AND SECONDARY EMPLOYMENT BY PROVINCE


C ... CRE3NT    NOVA SCOTIA     PETROL+GAS              I/O EMPLOYMENT
E 133 CRE3NT=CRE3YK*(MRE3NT/MRE3YK)
C-
F     ELSE
C ... CRE3NT    NOVA SCOTIA     PETROL+GAS              I/O EMPLOYMENT
E 133 CRE3NT=CRE3YK*(CRE3NT<-1>/(CRE3YK<-1>))*
O2    ((MRE3NT/MRE3YK)/(MRE3NT<-1>/MRE3YK<-1>))
C-
F     END IF
S     IF ((DRE3NT<-1> .LT. 0.0001) .OR. (DRE3YK<-1> .LT. 0.0001))
F    *THEN
C ... DRE3NT    NEW BRUNSWICK   PETROL+GAS              I/O EMPLOYMENT
E 134 DRE3NT=DRE3YK*(MRE3NT/MRE3YK)
C-
F     ELSE
C ... DRE3NT    NEW BRUNSWICK   PETROL+GAS              I/O EMPLOYMENT
E 134 DRE3NT=DRE3YK*(DRE3NT<-1>/(DRE3YK<-1>))*
O2    ((MRE3NT/MRE3YK)/(MRE3NT<-1>/MRE3YK<-1>))
C-
F     END IF
S     IF ((ERE3NT<-1> .LT. 0.0001) .OR. (ERE3YK<-1> .LT. 0.0001))
F    *THEN
C ... ERE3NT    QUEBEC          PETROL+GAS              I/O EMPLOYMENT
E 135 ERE3NT=ERE3YK*(MRE3NT/MRE3YK)
C-
F     ELSE
C ... ERE3NT    QUEBEC          PETROL+GAS              I/O EMPLOYMENT
E 135 ERE3NT=ERE3YK*(ERE3NT<-1>/(ERE3YK<-1>))*
O2    ((MRE3NT/MRE3YK)/(MRE3NT<-1>/MRE3YK<-1>))
C-
F     END IF
C ... FRE3NT    ONTARIO         PETROL+GAS              I/O EMPLOYMENT
E 136 FRE3NT=1000*FRE3YK*(1/(B+B*1000*(MRE3YK/MRE3NT)))
C- B(01)=  1805.240    [   0.35] B(02)= 0.2302741    [   2.74]
C- RB2=0.33 DW=0.65 S.E.E.=  4558.689     AAPE= 29.49
C- 1968-1981
C-
C ... GRE3NT    MANITOBA        PETROL+GAS              I/O EMPLOYMENT
E 137 GRE3NT=1000*GRE3YK*(1/(B+B*1000*(MRE3YK/MRE3NT)))
C- B(01)= -28132.53    [  -0.73] B(02)=  2.300588    [   3.71]
C- RB2=0.49 DW=0.39 S.E.E.=  33631.77     AAPE= 24.03
C- 1968-1981
C-
C ... HRE3NT    SASKATCHEWAN    PETROL+GAS              I/O EMPLOYMENT
E 138 HRE3NT=1000*HRE3YK*(1/(B+B*1000*(MRE3YK/MRE3NT)))
C- B(01)= -9005.924    [  -0.30] B(02)=  2.573883    [   5.37]
C- RB2=0.68 DW=0.43 S.E.E.=  25981.73     AAPE= 14.26
C- 1968-1981
C-
C ... IRE3NT    ALBERTA         PETROL+GAS              I/O EMPLOYMENT
E 139 IRE3NT=1000*IRE3YK*(1/(B+B*1000*(MRE3YK/MRE3NT)))
C- B(01)=  2863.265    [   0.97] B(02)= 0.8873253    [  18.64]
```

```
C- RB2=0.96 DW=0.23 S.E.E.=  2578.990     AAPE=  3.34
C- 1968-1981
C-
S     IF ((JRE3NT<-1> .LT. 0.0001) .OR. (JRE3YK<-1> .LT. 0.0001))
F    *THEN
C ... JRE3NT    B.C.            PETROL+GAS              I/O EMPLOYMENT
E 140 JRE3NT=JRE3YK*(MRE3NT/MRE3YK)
C-
F     ELSE
C ... JRE3NT    B.C.            PETROL+GAS              I/O EMPLOYMENT
E 140 JRE3NT=JRE3YK*(JRE3NT<-1>/(JRE3YK<-1>))*
O2    ((MRE3NT/MRE3YK)/(MRE3NT<-1>/MRE3YK<-1>))
C-
F     END IF
S     IF ((TRE3NT<-1> .LT. 0.0001) .OR. (TRE3YK<-1> .LT. 0.0001))
F    *THEN
C ... TRE3NT    TERRITORIES     PETROL+GAS              I/O EMPLOYMENT
E 141 TRE3NT=TRE3YK*(MRE3NT/MRE3YK)
C-
F     ELSE
C ... TRE3NT    TERRITORIES     PETROL+GAS              I/O EMPLOYMENT
E 141 TRE3NT=TRE3YK*(TRE3NT<-1>/(TRE3YK<-1>))*
O2    ((MRE3NT/MRE3YK)/(MRE3NT<-1>/MRE3YK<-1>))
C-
F     END IF
S     I='ARE3NT'-'AAGONT'+1.0
S     J='AAGONT'+I-1
S     CALL SHRAD4(S(I),C(I),RE3NET,ADJ,11,E(J),X(1),J,0)
C ... SRE3NT    B.C.+TER.       PETROL+GAS              I/O EMPLOYMENT
E 142 SRE3NT=JRE3NT+TRE3NT
C-
C ... MRE3NT    CANADA          PETROL+GAS              I/O EMPLOYMENT
E 143 MRE3NT=ARE3NT+BRE3NT+CRE3NT+DRE3NT+ERE3NT+FRE3NT+GRE3NT+HRE3NT+IRE3NT+
O2    SRE3NT
C-
S     IF ((ARE4NT<-1> .LT. 0.0001) .OR. (ARE4YK<-1> .LT. 0.0001))
F    *THEN
C ... ARE4NT    NEWFOUNDLAND    NON-MET MINING          I/O EMPLOYMENT
E 144 ARE4NT=ARE4YK*(MRE4NT/MRE4YK)
C-
F     ELSE
C ... ARE4NT    NEWFOUNDLAND    NON-MET MINING          I/O EMPLOYMENT
E 144 ARE4NT=ARE4YK*(ARE4NT<-1>/(ARE4YK<-1>))*
O2    ((MRE4NT/MRE4YK)/(MRE4NT<-1>/MRE4YK<-1>))
C-
F     END IF
S     IF ((BRE4NT<-1> .LT. 0.0001) .OR. (BRE4YK<-1> .LT. 0.0001))
F    *THEN
C ... BRE4NT    P.E.I.          NON-MET MINING          I/O EMPLOYMENT
E 145 BRE4NT=BRE4YK*(MRE4NT/MRE4YK)
C-
F     ELSE
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```
C ... BRE4NT    P.E.I.          NON-MET MINING          I/O EMPLOYMENT
E 145 BRE4NT=BRE4YK*(BRE4NT<-1>/(BRE4YK<-1>))*
O2     ((MRE4NT/MRE4YK)/(MRE4NT<-1>/MRE4YK<-1>))
C-
F      END IF
C ... CRE4NT    NOVA SCOTIA     NON-MET MINING          I/O EMPLOYMENT
E 146 CRE4NT=1000*CRE4YK*(1/(B+B*1000*(MRE4YK/MRE4NT)))
C- B(01)= -362.1765     [  -0.05] B(02)=  1.087511     [   2.58]
C- RB2=0.30 DW=1.07 S.E.E.=  1387.256     AAPE=  5.17
C- 1968-1981
C-
C ... DRE4NT    NEW BRUNSWICK   NON-MET MINING          I/O EMPLOYMENT
E 147 DRE4NT=1000*DRE4YK*(1/(B+B*1000*(MRE4YK/MRE4NT)))
C- B(01)= -1890.670     [  -0.41] B(02)= 0.5082965     [   2.05]
C- RB2=0.20 DW=3.18 S.E.E.=  815.3373     AAPE=  8.59
C- 1968-1981
C-
S      IF ((ERE4NT<-1> .LT. 0.0001) .OR. (ERE4YK<-1> .LT. 0.0001))
F     *THEN
C ... ERE4NT    QUEBEC          NON-MET MINING          I/O EMPLOYMENT
E 148 ERE4NT=ERE4YK*(MRE4NT/MRE4YK)
C-
F      ELSE
C ... ERE4NT    QUEBEC          NON-MET MINING          I/O EMPLOYMENT
E 148 ERE4NT=ERE4YK*(ERE4NT<-1>/(ERE4YK<-1>))*
O2     ((MRE4NT/MRE4YK)/(MRE4NT<-1>/MRE4YK<-1>))
C-
F      END IF
S      IF ((FRE4NT<-1> .LT. 0.0001) .OR. (FRE4YK<-1> .LT. 0.0001))
F     *THEN
C ... FRE4NT    ONTARIO         NON-MET MINING          I/O EMPLOYMENT
E 149 FRE4NT=FRE4YK*(MRE4NT/MRE4YK)
C-
F      ELSE
C ... FRE4NT    ONTARIO         NON-MET MINING          I/O EMPLOYMENT
E 149 FRE4NT=FRE4YK*(FRE4NT<-1>/(FRE4YK<-1>))*
O2     ((MRE4NT/MRE4YK)/(MRE4NT<-1>/MRE4YK<-1>))
C-
F      END IF
S      IF ((GRE4NT<-1> .LT. 0.0001) .OR. (GRE4YK<-1> .LT. 0.0001))
F     *THEN
C ... GRE4NT    MANITOBA        NON-MET MINING          I/O EMPLOYMENT
E 150 GRE4NT=GRE4YK*(MRE4NT/MRE4YK)
C-
F      ELSE
C ... GRE4NT    MANITOBA        NON-MET MINING          I/O EMPLOYMENT
E 150 GRE4NT=GRE4YK*(GRE4NT<-1>/(GRE4YK<-1>))*
O2     ((MRE4NT/MRE4YK)/(MRE4NT<-1>/MRE4YK<-1>))
C-
F      END IF
C ... HRE4NT    SASKATCHEWAN    NON-MET MINING          I/O EMPLOYMENT
E 151 HRE4NT=1000*HRE4YK*(1/(B+B*1000*(MRE4YK/MRE4NT)))
```

```
C- B(01)= -18810.93     [  -1.64] B(02)=  2.621677     [   4.27]
C- RB2=0.57 DW=1.71 S.E.E.=  2019.885     AAPE=  4.85
C- 1968-1981
C-
C ... IRE4NT    ALBERTA          NON-MET MINING          I/O EMPLOYMENT
E 152 IRE4NT=1000*IRE4YK*(1/(B+B*1000*(MRE4YK/MRE4NT)))
C- B(01)= -5049.759     [  -0.55] B(02)=  1.159802     [   2.35]
C- RB2=0.26 DW=1.61 S.E.E.=  1623.430     AAPE=  6.71
C- 1968-1981
C-
S      IF ((JRE4NT<-1> .LT. 0.0001) .OR. (JRE4YK<-1> .LT. 0.0001))
F     *THEN
C ... JRE4NT    B.C.             NON-MET MINING          I/O EMPLOYMENT
E 153 JRE4NT=JRE4YK*(MRE4NT/MRE4YK)
C-
F      ELSE
C ... JRE4NT    B.C.             NON-MET MINING          I/O EMPLOYMENT
E 153 JRE4NT=JRE4YK*(JRE4NT<-1>/(JRE4YK<-1>))*
02     ((MRE4NT/MRE4YK)/(MRE4NT<-1>/MRE4YK<-1>))
C-
F      END IF
S      IF ((TRE4NT<-1> .LT. 0.0001) .OR. (TRE4YK<-1> .LT. 0.0001))
F     *THEN
C ... TRE4NT    TERRITORIES      NON-MET MINING          I/O EMPLOYMENT
E 154 TRE4NT=TRE4YK*(MRE4NT/MRE4YK)
C-
F      ELSE
C ... TRE4NT    TERRITORIES      NON-MET MINING          I/O EMPLOYMENT
E 154 TRE4NT=TRE4YK*(TRE4NT<-1>/(TRE4YK<-1>))*
02     ((MRE4NT/MRE4YK)/(MRE4NT<-1>/MRE4YK<-1>))
C-
F      END IF
S      I='ARE4NT'-'AAGONT'+1.0
S      J='AAGONT'+I-1
S      CALL SHRAD4(S(I),C(I),RE4NET,ADJ,11,E(J),X(1),J,0)
C ... SRE4NT    B.C.+TER.        NON-MET MINING          I/O EMPLOYMENT
E 155 SRE4NT=JRE4NT+TRE4NT
C-
C ... MRE4NT    CANADA           NON-MET MINING          I/O EMPLOYMENT
E 156 MRE4NT=ARE4NT+BRE4NT+CRE4NT+DRE4NT+ERE4NT+FRE4NT+GRE4NT+HRE4NT+IRE4NT+
02     SRE4NT
C-
S      IF ((ARE5NT<-1> .LT. 0.0001) .OR. (ARE5YK<-1> .LT. 0.0001))
F     *THEN
C ... ARE5NT    NEWFOUNDLAND     MINING SERVICES         I/O EMPLOYMENT
E 157 ARE5NT=ARE5YK*(MRE5NT/MRE5YK)
C-
F      ELSE
C ... ARE5NT    NEWFOUNDLAND     MINING SERVICES         I/O EMPLOYMENT
E 157 ARE5NT=ARE5YK*(ARE5NT<-1>/(ARE5YK<-1>))*
02     ((MRE5NT/MRE5YK)/(MRE5NT<-1>/MRE5YK<-1>))
C-
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```
F      END IF
S      IF ((BRE5NT<-1> .LT. 0.0001) .OR. (BRE5YK<-1> .LT. 0.0001))
F     *THEN
C ... BRE5NT    P.E.I.          MINING SERVICES        I/O EMPLOYMENT
E 158 BRE5NT=BRE5YK*(MRE5NT/MRE5YK)
C-
F      ELSE
C ... BRE5NT    P.E.I.          MINING SERVICES        I/O EMPLOYMENT
E 158 BRE5NT=BRE5YK*(BRE5NT<-1>/(BRE5YK<-1>))*
O2     ((MRE5NT/MRE5YK)/(MRE5NT<-1>/MRE5YK<-1>))
C-
F      END IF
S      IF ((CRE5NT<-1> .LT. 0.0001) .OR. (CRE5YK<-1> .LT. 0.0001))
F     *THEN
C ... CRE5NT    NOVA SCOTIA     MINING SERVICES        I/O EMPLOYMENT
E 159 CRE5NT=CRE5YK*(MRE5NT/MRE5YK)
C-
F      ELSE
C ... CRE5NT    NOVA SCOTIA     MINING SERVICES        I/O EMPLOYMENT
E 159 CRE5NT=CRE5YK*(CRE5NT<-1>/(CRE5YK<-1>))*
O2     ((MRE5NT/MRE5YK)/(MRE5NT<-1>/MRE5YK<-1>))
C-
F      END IF
S      IF ((DRE5NT<-1> .LT. 0.0001) .OR. (DRE5YK<-1> .LT. 0.0001))
F     *THEN
C ... DRE5NT    NEW BRUNSWICK   MINING SERVICES        I/O EMPLOYMENT
E 160 DRE5NT=DRE5YK*(MRE5NT/MRE5YK)
C-
F      ELSE
C ... DRE5NT    NEW BRUNSWICK   MINING SERVICES        I/O EMPLOYMENT
E 160 DRE5NT=DRE5YK*(DRE5NT<-1>/(DRE5YK<-1>))*
O2     ((MRE5NT/MRE5YK)/(MRE5NT<-1>/MRE5YK<-1>))
C-
F      END IF
S      IF ((ERE5NT<-1> .LT. 0.0001) .OR. (ERE5YK<-1> .LT. 0.0001))
F     *THEN
C ... ERE5NT    QUEBEC          MINING SERVICES        I/O EMPLOYMENT
E 161 ERE5NT=ERE5YK*(MRE5NT/MRE5YK)
C-
F      ELSE
C ... ERE5NT    QUEBEC          MINING SERVICES        I/O EMPLOYMENT
E 161 ERE5NT=ERE5YK*(ERE5NT<-1>/(ERE5YK<-1>))*
O2     ((MRE5NT/MRE5YK)/(MRE5NT<-1>/MRE5YK<-1>))
C-
F      END IF
S      IF ((FRE5NT<-1> .LT. 0.0001) .OR. (FRE5YK<-1> .LT. 0.0001))
F     *THEN
C ... FRE5NT    ONTARIO         MINING SERVICES        I/O EMPLOYMENT
E 162 FRE5NT=FRE5YK*(MRE5NT/MRE5YK)
C-
F      ELSE
C ... FRE5NT    ONTARIO         MINING SERVICES        I/O EMPLOYMENT
```

```
E 162 FRE5NT=FRE5YK*(FRE5NT<-1>/(FRE5YK<-1>))*
O2     ((MRE5NT/MRE5YK)/(MRE5NT<-1>/MRE5YK<-1>))
C-
F      END IF
S      IF ((GRE5NT<-1> .LT. 0.0001) .OR. (GRE5YK<-1> .LT. 0.0001))
F     *THEN
C ... GRE5NT    MANITOBA         MINING SERVICES         I/O EMPLOYMENT
E 163 GRE5NT=GRE5YK*(MRE5NT/MRE5YK)
C-
F      ELSE
C ... GRE5NT    MANITOBA         MINING SERVICES         I/O EMPLOYMENT
E 163 GRE5NT=GRE5YK*(GRE5NT<-1>/(GRE5YK<-1>))*
O2     ((MRE5NT/MRE5YK)/(MRE5NT<-1>/MRE5YK<-1>))
C-
F      END IF
S      IF ((HRE5NT<-1> .LT. 0.0001) .OR. (HRE5YK<-1> .LT. 0.0001))
F     *THEN
C ... HRE5NT    SASKATCHEWAN     MINING SERVICES         I/O EMPLOYMENT
E 164 HRE5NT=HRE5YK*(MRE5NT/MRE5YK)
C-
F      ELSE
C ... HRE5NT    SASKATCHEWAN     MINING SERVICES         I/O EMPLOYMENT
E 164 HRE5NT=HRE5YK*(HRE5NT<-1>/(HRE5YK<-1>))*
O2     ((MRE5NT/MRE5YK)/(MRE5NT<-1>/MRE5YK<-1>))
C-
F      END IF
S      IF ((IRE5NT<-1> .LT. 0.0001) .OR. (IRE5YK<-1> .LT. 0.0001))
F     *THEN
C ... IRE5NT    ALBERTA          MINING SERVICES         I/O EMPLOYMENT
E 165 IRE5NT=IRE5YK*(MRE5NT/MRE5YK)
C-
F      ELSE
C ... IRE5NT    ALBERTA          MINING SERVICES         I/O EMPLOYMENT
E 165 IRE5NT=IRE5YK*(IRE5NT<-1>/(IRE5YK<-1>))*
O2     ((MRE5NT/MRE5YK)/(MRE5NT<-1>/MRE5YK<-1>))
C-
F      END IF
S      IF ((JRE5NT<-1> .LT. 0.0001) .OR. (JRE5YK<-1> .LT. 0.0001))
F     *THEN
C ... JRE5NT    B.C.             MINING SERVICES         I/O EMPLOYMENT
E 166 JRE5NT=JRE5YK*(MRE5NT/MRE5YK)
C-
F      ELSE
C ... JRE5NT    B.C.             MINING SERVICES         I/O EMPLOYMENT
E 166 JRE5NT=JRE5YK*(JRE5NT<-1>/(JRE5YK<-1>))*
O2     ((MRE5NT/MRE5YK)/(MRE5NT<-1>/MRE5YK<-1>))
C-
F      END IF
S      IF ((TRE5NT<-1> .LT. 0.0001) .OR. (TRE5YK<-1> .LT. 0.0001))
F     *THEN
C ... TRE5NT    TERRITORIES      MINING SERVICES         I/O EMPLOYMENT
E 167 TRE5NT=TRE5YK*(MRE5NT/MRE5YK)
```


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PROVINCIAL ESTIMATION RESULTS
PRIMARY AND SECONDARY EMPLOYMENT BY PROVINCE

```
C-
F      ELSE
C ... TRE5NT    TERRITORIES     MINING SERVICES          I/O EMPLOYMENT
E 167 TRE5NT=TRE5YK*(TRE5NT<-1>/(TRE5YK<-1>))*
O2     ((MRE5NT/MRE5YK)/(MRE5NT<-1>/MRE5YK<-1>))
C-
F      END IF
S      I='ARE5NT'-'AAGONT'+1.0
S      J='AAGONT'+I-1
S      CALL SHRAD4(S(I),C(I),RE5NET,ADJ,11,E(J),X(1),J,0)
C ... SRE5NT    B.C.+TER.       MINING SERVICES          I/O EMPLOYMENT
E 168 SRE5NT=JRE5NT+TRE5NT
C-
C ... MRE5NT    CANADA          MINING SERVICES          I/O EMPLOYMENT
E 169 MRE5NT=ARE5NT+BRE5NT+CRE5NT+DRE5NT+ERE5NT+FRE5NT+GRE5NT+HRE5NT+IRE5NT+
O2     SRE5NT
C-
S      IF ((AMFTNT<-1> .LT. 0.0001) .OR. (AMFTYK<-1> .LT. 0.0001))
F     *THEN
C ... AMFTNT    NEWFOUNDLAND    MAN-FOOD                 I/O EMPLOYMENT
E 209 AMFTNT=AMFTYK*(MMFTNT/MMFTYK)
C-
F      ELSE
C ... AMFTNT    NEWFOUNDLAND    MAN-FOOD                 I/O EMPLOYMENT
E 209 AMFTNT=AMFTYK*(AMFTNT<-1>/(AMFTYK<-1>))*
O2     ((MMFTNT/MMFTYK)/(MMFTNT<-1>/MMFTYK<-1>))
C-
F      END IF
S      IF ((BMFTNT<-1> .LT. 0.0001) .OR. (BMFTYK<-1> .LT. 0.0001))
F     *THEN
C ... BMFTNT    P.E.I.          MAN-FOOD                 I/O EMPLOYMENT
E 210 BMFTNT=BMFTYK*(MMFTNT/MMFTYK)
C-
F      ELSE
C ... BMFTNT    P.E.I.          MAN-FOOD                 I/O EMPLOYMENT
E 210 BMFTNT=BMFTYK*(BMFTNT<-1>/(BMFTYK<-1>))*
O2     ((MMFTNT/MMFTYK)/(MMFTNT<-1>/MMFTYK<-1>))
C-
F      END IF
C ... CMFTNT    NOVA SCOTIA     MAN-FOOD                 I/O EMPLOYMENT
E 211 CMFTNT=1000*CMFTYK*(1/(B+B*1000*(MMFTYK/MMFTNT)))
C- B(01)= -3798.561     [  -1.20] B(02)= 0.9173304     [   3.78]
C- RB2=0.57 DW=2.27 S.E.E.=  442.4675     AAPE=  3.75
C- 1971-1981
C-
C ... DMFTNT    NEW BRUNSWICK   MAN-FOOD                 I/O EMPLOYMENT
E 212 DMFTNT=1000*DMFTYK*(1/(B+B*1000*(MMFTYK/MMFTNT)))
C- B(01)=  1707.457     [   0.68] B(02)= 0.5996205     [   3.10]
C- RB2=0.46 DW=2.22 S.E.E.=  352.9386     AAPE=  2.85
C- 1971-1981
C-
C ... EMFTNT    QUEBEC          MAN-FOOD                 I/O EMPLOYMENT
```


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```
E 213 EMFTNT=1000*EMFTYK*(1/(B+B*1000*(MMFTYK/MMFTNT)))
C- B(01)= -3665.277     [  -3.69] B(02)=  1.307287     [  17.14]
C- RB2=0.97 DW=1.86 S.E.E.=  139.0123     AAPE=  0.78
C- 1971-1981
C-
C ... FMFTNT    ONTARIO          MAN-FOOD                 I/O EMPLOYMENT
E 214 FMFTNT=1000*FMFTYK*(1/(B+B*1000*(MMFTYK/MMFTNT)))
C- B(01)= -692.3503     [  -0.65] B(02)=  1.181804     [  14.48]
C- RB2=0.95 DW=1.58 S.E.E.=  148.6693     AAPE=  0.80
C- 1971-1981
C-
S     IF ((GMFTNT<-1> .LT. 0.0001) .OR. (GMFTYK<-1> .LT. 0.0001))
F    *THEN
C ... GMFTNT    MANITOBA         MAN-FOOD                 I/O EMPLOYMENT
E 215 GMFTNT=GMFTYK*(MMFTNT/MMFTYK)
C-
F     ELSE
C ... GMFTNT    MANITOBA         MAN-FOOD                 I/O EMPLOYMENT
E 215 GMFTNT=GMFTYK*(GMFTNT<-1>/(GMFTYK<-1>))*
02     ((MMFTNT/MMFTYK)/(MMFTNT<-1>/MMFTYK<-1>))
C-
F     END IF
C ... HMFTNT    SASKATCHEWAN     MAN-FOOD                 I/O EMPLOYMENT
E 216 HMFTNT=1000*HMFTYK*(1/(B+B*1000*(MMFTYK/MMFTNT)))
C- B(01)= -4551.935     [  -1.07] B(02)=  1.256635     [   3.85]
C- RB2=0.58 DW=2.49 S.E.E.=  594.5278     AAPE=  3.68
C- 1971-1981
C-
S     IF ((IMFTNT<-1> .LT. 0.0001) .OR. (IMFTYK<-1> .LT. 0.0001))
F    *THEN
C ... IMFTNT    ALBERTA          MAN-FOOD                 I/O EMPLOYMENT
E 217 IMFTNT=IMFTYK*(MMFTNT/MMFTYK)
C-
F     ELSE
C ... IMFTNT    ALBERTA          MAN-FOOD                 I/O EMPLOYMENT
E 217 IMFTNT=IMFTYK*(IMFTNT<-1>/(IMFTYK<-1>))*
02     ((MMFTNT/MMFTYK)/(MMFTNT<-1>/MMFTYK<-1>))
C-
F     END IF
S     IF ((JMFTNT<-1> .LT. 0.0001) .OR. (JMFTYK<-1> .LT. 0.0001))
F    *THEN
C ... JMFTNT    B.C.             MAN-FOOD                 I/O EMPLOYMENT
E 218 JMFTNT=JMFTYK*(MMFTNT/MMFTYK)
C-
F     ELSE
C ... JMFTNT    B.C.             MAN-FOOD                 I/O EMPLOYMENT
E 218 JMFTNT=JMFTYK*(JMFTNT<-1>/(JMFTYK<-1>))*
02     ((MMFTNT/MMFTYK)/(MMFTNT<-1>/MMFTYK<-1>))
C-
F     END IF
S     IF ((TMFTNT<-1> .LT. 0.0001) .OR. (TMFTYK<-1> .LT. 0.0001))
F    *THEN
```


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C ... TMFTNT    TERRITORIES     MAN-FOOD                I/O EMPLOYMENT
E 219 TMFTNT=TMFTYK*(MMFTNT/MMFTYK)
C-
F     ELSE
C ... TMFTNT    TERRITORIES     MAN-FOOD                I/O EMPLOYMENT
E 219 TMFTNT=TMFTYK*(TMFTNT<-1>/(TMFTYK<-1>))*
02    ((MMFTNT/MMFTYK)/(MMFTNT<-1>/MMFTYK<-1>))
C-
F     END IF
S     I='AMFTNT'-'AAGONT'+1.0
S     J='AAGONT'+I-1
S     CALL SHRAD4(S(I),C(I),MFTNET,ADJ,11,E(J),X(I),J,0)
C ... SMFTNT    B.C.+TER.       MAN-FOOD                I/O EMPLOYMENT
E 220 SMFTNT=JMFTNT+TMFTNT
C-
C ... MMFTNT    CANADA          MAN-FOOD                I/O EMPLOYMENT
E 221 MMFTNT=AMFTNT+BMFTNT+CMFTNT+DMFTNT+EMFTNT+FMFTNT+GMFTNT+HMFTNT+IMFTNT+
02    SMFTNT
C-
S     IF ((AMO2NT<-1> .LT. 0.0001) .OR. (AMO2YK<-1> .LT. 0.0001))
F    *THEN
C ... AMO2NT    NEWFOUNDLAND    MAN-TOBACCO             I/O EMPLOYMENT
E 222 AMO2NT=AMO2YK*(MMO2NT/MMO2YK)
C-
F     ELSE
C ... AMO2NT    NEWFOUNDLAND    MAN-TOBACCO             I/O EMPLOYMENT
E 222 AMO2NT=AMO2YK*(AMO2NT<-1>/(AMO2YK<-1>))*
02    ((MMO2NT/MMO2YK)/(MMO2NT<-1>/MMO2YK<-1>))
C-
F     END IF
S     IF ((BMO2NT<-1> .LT. 0.0001) .OR. (BMO2YK<-1> .LT. 0.0001))
F    *THEN
C ... BMO2NT    P.E.I.          MAN-TOBACCO             I/O EMPLOYMENT
E 223 BMO2NT=BMO2YK*(MMO2NT/MMO2YK)
C-
F     ELSE
C ... BMO2NT    P.E.I.          MAN-TOBACCO             I/O EMPLOYMENT
E 223 BMO2NT=BMO2YK*(BMO2NT<-1>/(BMO2YK<-1>))*
02    ((MMO2NT/MMO2YK)/(MMO2NT<-1>/MMO2YK<-1>))
C-
F     END IF
S     IF ((CMO2NT<-1> .LT. 0.0001) .OR. (CMO2YK<-1> .LT. 0.0001))
F    *THEN
C ... CMO2NT    NOVA SCOTIA     MAN-TOBACCO             I/O EMPLOYMENT
E 224 CMO2NT=CMO2YK*(MMO2NT/MMO2YK)
C-
F     ELSE
C ... CMO2NT    NOVA SCOTIA     MAN-TOBACCO             I/O EMPLOYMENT
E 224 CMO2NT=CMO2YK*(CMO2NT<-1>/(CMO2YK<-1>))*
02    ((MMO2NT/MMO2YK)/(MMO2NT<-1>/MMO2YK<-1>))
C-
F     END IF
```


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```
S     IF ((DM02NT<-1> .LT. 0.0001) .OR. (DM02YK<-1> .LT. 0.0001))
F    *THEN
C ... DM02NT    NEW BRUNSWICK   MAN-TOBACCO            I/O EMPLOYMENT
E 225 DM02NT=DM02YK*(MM02NT/MM02YK)
C-
F     ELSE
C ... DM02NT    NEW BRUNSWICK   MAN-TOBACCO            I/O EMPLOYMENT
E 225 DM02NT=DM02YK*(DM02NT<-1>/(DM02YK<-1>))*
02    ((MM02NT/MM02YK)/(MM02NT<-1>/MM02YK<-1>))
C-
F     END IF
S     IF ((EM02NT<-1> .LT. 0.0001) .OR. (EM02YK<-1> .LT. 0.0001))
F    *THEN
C ... EM02NT    QUEBEC          MAN-TOBACCO            I/O EMPLOYMENT
E 226 EM02NT=EM02YK*(MM02NT/MM02YK)
C-
F     ELSE
C ... EM02NT    QUEBEC          MAN-TOBACCO            I/O EMPLOYMENT
E 226 EM02NT=EM02YK*(EM02NT<-1>/(EM02YK<-1>))*
02    ((MM02NT/MM02YK)/(MM02NT<-1>/MM02YK<-1>))
C-
F     END IF
S     IF ((FM02NT<-1> .LT. 0.0001) .OR. (FM02YK<-1> .LT. 0.0001))
F    *THEN
C ... FM02NT    ONTARIO         MAN-TOBACCO            I/O EMPLOYMENT
E 227 FM02NT=FM02YK*(MM02NT/MM02YK)
C-
F     ELSE
C ... FM02NT    ONTARIO         MAN-TOBACCO            I/O EMPLOYMENT
E 227 FM02NT=FM02YK*(FM02NT<-1>/(FM02YK<-1>))*
02    ((MM02NT/MM02YK)/(MM02NT<-1>/MM02YK<-1>))
C-
F     END IF
S     IF ((GM02NT<-1> .LT. 0.0001) .OR. (GM02YK<-1> .LT. 0.0001))
F    *THEN
C ... GM02NT    MANITOBA        MAN-TOBACCO            I/O EMPLOYMENT
E 228 GM02NT=GM02YK*(MM02NT/MM02YK)
C-
F     ELSE
C ... GM02NT    MANITOBA        MAN-TOBACCO            I/O EMPLOYMENT
E 228 GM02NT=GM02YK*(GM02NT<-1>/(GM02YK<-1>))*
02    ((MM02NT/MM02YK)/(MM02NT<-1>/MM02YK<-1>))
C-
F     END IF
S     IF ((HM02NT<-1> .LT. 0.0001) .OR. (HM02YK<-1> .LT. 0.0001))
F    *THEN
C ... HM02NT    SASKATCHEWAN    MAN-TOBACCO            I/O EMPLOYMENT
E 229 HM02NT=HM02YK*(MM02NT/MM02YK)
C-
F     ELSE
C ... HM02NT    SASKATCHEWAN    MAN-TOBACCO            I/O EMPLOYMENT
E 229 HM02NT=HM02YK*(HM02NT<-1>/(HM02YK<-1>))*
```


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```
O2     ((MMO2NT/MMO2YK)/(MMO2NT<-1>/MMO2YK<-1>))
C-
F      END IF
S      IF ((IMO2NT<-1> .LT. 0.0001) .OR. (IMO2YK<-1> .LT. 0.0001))
F     *THEN
C ...  IMO2NT    ALBERTA          MAN-TOBACCO            I/O EMPLOYMENT
E 230  IMO2NT=IMO2YK*(MMO2NT/MMO2YK)
C-
F      ELSE
C ...  IMO2NT    ALBERTA          MAN-TOBACCO            I/O EMPLOYMENT
E 230  IMO2NT=IMO2YK*(IMO2NT<-1>/(IMO2YK<-1>))*
O2     ((MMO2NT/MMO2YK)/(MMO2NT<-1>/MMO2YK<-1>))
C-
F      END IF
S      IF ((JMO2NT<-1> .LT. 0.0001) .OR. (JMO2YK<-1> .LT. 0.0001))
F     *THEN
C ...  JMO2NT    B.C.             MAN-TOBACCO            I/O EMPLOYMENT
E 231  JMO2NT=JMO2YK*(MMO2NT/MMO2YK)
C-
F      ELSE
C ...  JMO2NT    B.C.             MAN-TOBACCO            I/O EMPLOYMENT
E 231  JMO2NT=JMO2YK*(JMO2NT<-1>/(JMO2YK<-1>))*
O2     ((MMO2NT/MMO2YK)/(MMO2NT<-1>/MMO2YK<-1>))
C-
F      END IF
S      IF ((TMO2NT<-1> .LT. 0.0001) .OR. (TMO2YK<-1> .LT. 0.0001))
F     *THEN
C ...  TMO2NT    TERRITORIES      MAN-TOBACCO            I/O EMPLOYMENT
E 232  TMO2NT=TMO2YK*(MMO2NT/MMO2YK)
C-
F      ELSE
C ...  TMO2NT    TERRITORIES      MAN-TOBACCO            I/O EMPLOYMENT
E 232  TMO2NT=TMO2YK*(TMO2NT<-1>/(TMO2YK<-1>))*
O2     ((MMO2NT/MMO2YK)/(MMO2NT<-1>/MMO2YK<-1>))
C-
F      END IF
S      I='AMO2NT'-'AAGONT'+1.0
S      J='AAGONT'+I-1
S      CALL SHRAD4(S(I),C(I),MO2NET,ADJ,11,E(J),X(1),J,0)
C ...  SMO2NT    B.C.+TER.        MAN-TOBACCO            I/O EMPLOYMENT
E 233  SMO2NT=JMO2NT+TMO2NT
C-
C ...  MMO2NT    CANADA           MAN-TOBACCO            I/O EMPLOYMENT
E 234  MMO2NT=AMO2NT+BMO2NT+CMO2NT+DMO2NT+EMO2NT+FMO2NT+GMO2NT+HMO2NT+IMO2NT+
O2     SMO2NT
C-
S      IF ((AMO3NT<-1> .LT. 0.0001) .OR. (AMO3YK<-1> .LT. 0.0001))
F     *THEN
C ...  AMO3NT    NEWFOUNDLAND     MAN-RUBBER             I/O EMPLOYMENT
E 235  AMO3NT=AMO3YK*(MMO3NT/MMO3YK)
C-
F      ELSE
```


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```
C ... AM03NT    NEWFOUNDLAND    MAN-RUBBER              I/O EMPLOYMENT
E 235 AM03NT=AM03YK*(AM03NT<-1>/(AM03YK<-1>))*
02    ((MM03NT/MM03YK)/(MM03NT<-1>/MM03YK<-1>))
C-
F     END IF
S     IF ((BM03NT<-1> .LT. 0.0001) .OR. (BM03YK<-1> .LT. 0.0001))
F    *THEN
C ... BM03NT    P.E.I.          MAN-RUBBER              I/O EMPLOYMENT
E 236 BM03NT=BM03YK*(MM03NT/MM03YK)
C-
F     ELSE
C ... BM03NT    P.E.I.          MAN-RUBBER              I/O EMPLOYMENT
E 236 BM03NT=BM03YK*(BM03NT<-1>/(BM03YK<-1>))*
02    ((MM03NT/MM03YK)/(MM03NT<-1>/MM03YK<-1>))
C-
F     END IF
S     IF ((CM03NT<-1> .LT. 0.0001) .OR. (CM03YK<-1> .LT. 0.0001))
F    *THEN
C ... CM03NT    NOVA SCOTIA     MAN-RUBBER              I/O EMPLOYMENT
E 237 CM03NT=CM03YK*(MM03NT/MM03YK)
C-
F     ELSE
C ... CM03NT    NOVA SCOTIA     MAN-RUBBER              I/O EMPLOYMENT
E 237 CM03NT=CM03YK*(CM03NT<-1>/(CM03YK<-1>))*
02    ((MM03NT/MM03YK)/(MM03NT<-1>/MM03YK<-1>))
C-
F     END IF
S     IF ((DM03NT<-1> .LT. 0.0001) .OR. (DM03YK<-1> .LT. 0.0001))
F    *THEN
C ... DM03NT    NEW BRUNSWICK   MAN-RUBBER              I/O EMPLOYMENT
E 238 DM03NT=DM03YK*(MM03NT/MM03YK)
C-
F     ELSE
C ... DM03NT    NEW BRUNSWICK   MAN-RUBBER              I/O EMPLOYMENT
E 238 DM03NT=DM03YK*(DM03NT<-1>/(DM03YK<-1>))*
02    ((MM03NT/MM03YK)/(MM03NT<-1>/MM03YK<-1>))
C-
F     END IF
C ... EM03NT    QUEBEC          MAN-RUBBER              I/O EMPLOYMENT
E 239 EM03NT=1000*EM03YK*(1/(B+B*1000*(MM03YK/MM03NT)))
C- B(01)= -3427.208     [  -1.40] B(02)=  1.166790     [   6.36]
C- RB2=0.80 DW=1.69 S.E.E.=  524.2947     AAPE=  2.98
C- 1971-1981
C-
C ... FM03NT    ONTARIO         MAN-RUBBER              I/O EMPLOYMENT
E 240 FM03NT=1000*FM03YK*(1/(B+B*1000*(MM03YK/MM03NT)))
C- B(01)=  3113.851     [   2.54] B(02)= 0.8203106     [   8.93]
C- RB2=0.89 DW=1.48 S.E.E.=  262.5097     AAPE=  1.13
C- 1971-1981
C-
S     IF ((GM03NT<-1> .LT. 0.0001) .OR. (GM03YK<-1> .LT. 0.0001))
F    *THEN
```


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```
C ... GM03NT    MANITOBA          MAN-RUBBER                I/O EMPLOYMENT
E 241 GM03NT=GM03YK*(MM03NT/MM03YK)
C-
F     ELSE
C ... GM03NT    MANITOBA          MAN-RUBBER                I/O EMPLOYMENT
E 241 GM03NT=GM03YK*(GM03NT<-1>/(GM03YK<-1>))*
02    ((MM03NT/MM03YK)/(MM03NT<-1>/MM03YK<-1>))
C-
F     END IF
S     IF ((HM03NT<-1> .LT. 0.0001) .OR. (HM03YK<-1> .LT. 0.0001))
F    *THEN
C ... HM03NT    SASKATCHEWAN      MAN-RUBBER                I/O EMPLOYMENT
E 242 HM03NT=HM03YK*(MM03NT/MM03YK)
C-
F     ELSE
C ... HM03NT    SASKATCHEWAN      MAN-RUBBER                I/O EMPLOYMENT
E 242 HM03NT=HM03YK*(HM03NT<-1>/(HM03YK<-1>))*
02    ((MM03NT/MM03YK)/(MM03NT<-1>/MM03YK<-1>))
C-
F     END IF
C ... IM03NT    ALBERTA           MAN-RUBBER                I/O EMPLOYMENT
E 243 IM03NT=1000*IM03YK*(1/(B+B*1000*(MM03YK/MM03NT)))
C- B(01)= -7033.304     [  -0.78] B(02)=  1.602853     [   2.37]
C- RB2=0.32 DW=2.21 S.E.E.=  1936.264     AAPE=  8.23
C- 1971-1981
C-
S     IF ((JM03NT<-1> .LT. 0.0001) .OR. (JM03YK<-1> .LT. 0.0001))
F    *THEN
C ... JM03NT    B.C.              MAN-RUBBER                I/O EMPLOYMENT
E 244 JM03NT=JM03YK*(MM03NT/MM03YK)
C-
F     ELSE
C ... JM03NT    B.C.              MAN-RUBBER                I/O EMPLOYMENT
E 244 JM03NT=JM03YK*(JM03NT<-1>/(JM03YK<-1>))*
02    ((MM03NT/MM03YK)/(MM03NT<-1>/MM03YK<-1>))
C-
F     END IF
S     IF ((TM03NT<-1> .LT. 0.0001) .OR. (TM03YK<-1> .LT. 0.0001))
F    *THEN
C ... TM03NT    TERRITORIES       MAN-RUBBER                I/O EMPLOYMENT
E 245 TM03NT=TM03YK*(MM03NT/MM03YK)
C-
F     ELSE
C ... TM03NT    TERRITORIES       MAN-RUBBER                I/O EMPLOYMENT
E 245 TM03NT=TM03YK*(TM03NT<-1>/(TM03YK<-1>))*
02    ((MM03NT/MM03YK)/(MM03NT<-1>/MM03YK<-1>))
C-
F     END IF
S     I='AM03NT'-'AAGONT'+1.0
S     J='AAGONT'+I-1
S     CALL SHRAD4(S(I),C(I),M03NET,ADJ,11,E(J),X(1),J,0)
C ... SM03NT    B.C.+TER.         MAN-RUBBER                I/O EMPLOYMENT
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```
E 246 SM03NT=JM03NT+TM03NT
C-
C ... MM03NT    CANADA          MAN-RUBBER              I/O EMPLOYMENT
E 247 MM03NT=AM03NT+BM03NT+CM03NT+DM03NT+EM03NT+FM03NT+GM03NT+HM03NT+IM03NT+
02    SM03NT
C-
S     IF ((AM04NT<-1> .LT. 0.0001) .OR. (AM04YK<-1> .LT. 0.0001))
F    *THEN
C ... AM04NT    NEWFOUNDLAND    MAN-LEATHER             I/O EMPLOYMENT
E 248 AM04NT=AM04YK*(MM04NT/MM04YK)
C-
F     ELSE
C ... AM04NT    NEWFOUNDLAND    MAN-LEATHER             I/O EMPLOYMENT
E 248 AM04NT=AM04YK*(AM04NT<-1>/(AM04YK<-1>))*
02    ((MM04NT/MM04YK)/(MM04NT<-1>/MM04YK<-1>))
C-
F     END IF
S     IF ((BM04NT<-1> .LT. 0.0001) .OR. (BM04YK<-1> .LT. 0.0001))
F    *THEN
C ... BM04NT    P.E.I.          MAN-LEATHER             I/O EMPLOYMENT
E 249 BM04NT=BM04YK*(MM04NT/MM04YK)
C-
F     ELSE
C ... BM04NT    P.E.I.          MAN-LEATHER             I/O EMPLOYMENT
E 249 BM04NT=BM04YK*(BM04NT<-1>/(BM04YK<-1>))*
02    ((MM04NT/MM04YK)/(MM04NT<-1>/MM04YK<-1>))
C-
F     END IF
S     IF ((CM04NT<-1> .LT. 0.0001) .OR. (CM04YK<-1> .LT. 0.0001))
F    *THEN
C ... CM04NT    NOVA SCOTIA     MAN-LEATHER             I/O EMPLOYMENT
E 250 CM04NT=CM04YK*(MM04NT/MM04YK)
C-
F     ELSE
C ... CM04NT    NOVA SCOTIA     MAN-LEATHER             I/O EMPLOYMENT
E 250 CM04NT=CM04YK*(CM04NT<-1>/(CM04YK<-1>))*
02    ((MM04NT/MM04YK)/(MM04NT<-1>/MM04YK<-1>))
C-
F     END IF
S     IF ((DM04NT<-1> .LT. 0.0001) .OR. (DM04YK<-1> .LT. 0.0001))
F    *THEN
C ... DM04NT    NEW BRUNSWICK   MAN-LEATHER             I/O EMPLOYMENT
E 251 DM04NT=DM04YK*(MM04NT/MM04YK)
C-
F     ELSE
C ... DM04NT    NEW BRUNSWICK   MAN-LEATHER             I/O EMPLOYMENT
E 251 DM04NT=DM04YK*(DM04NT<-1>/(DM04YK<-1>))*
02    ((MM04NT/MM04YK)/(MM04NT<-1>/MM04YK<-1>))
C-
F     END IF
C ... EM04NT    QUEBEC          MAN-LEATHER             I/O EMPLOYMENT
E 252 EM04NT=1000*EM04YK*(1/(B+B*1000*(MM04YK/MM04NT)))
```


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PROVINCIAL ESTIMATION RESULTS
PRIMARY AND SECONDARY EMPLOYMENT BY PROVINCE


C- B(01)= -1050.750     [  -1.46] B(02)=  1.122346     [  10.82]
C- RB2=0.92 DW=1.19 S.E.E.=  184.2149     AAPE=  2.02
C- 1971-1981
C-
C ... FMO4NT    ONTARIO          MAN-LEATHER              I/O EMPLOYMENT
E 253 FMO4NT=1000*FMO4YK*(1/(B+B*1000*(MM04YK/MM04NT)))
C- B(01)=  1334.514     [   2.68] B(02)= 0.8233480     [  11.47]
C- RB2=0.93 DW=1.99 S.E.E.=  127.5348     AAPE=  1.11
C- 1971-1981
C-
C ... GMO4NT    MANITOBA         MAN-LEATHER              I/O EMPLOYMENT
E 254 GMO4NT=1000*GMO4YK*(1/(B+B*1000*(MM04YK/MM04NT)))
C- B(01)= -2675.675     [  -0.59] B(02)=  1.592487     [   2.43]
C- RB2=0.33 DW=2.23 S.E.E.=  1161.568     AAPE= 10.32
C- 1971-1981
C-
S      IF ((HMO4NT<-1> .LT. 0.0001) .OR. (HMO4YK<-1> .LT. 0.0001))
F     *THEN
C ... HMO4NT    SASKATCHEWAN     MAN-LEATHER              I/O EMPLOYMENT
E 255 HMO4NT=HMO4YK*(MM04NT/MM04YK)
C-
F      ELSE
C ... HMO4NT    SASKATCHEWAN     MAN-LEATHER              I/O EMPLOYMENT
E 255 HMO4NT=HMO4YK*(HMO4NT<-1>/(HMO4YK<-1>))*
O2     ((MM04NT/MM04YK)/(MM04NT<-1>/MM04YK<-1>))
C-
F      END IF
S      IF ((IMO4NT<-1> .LT. 0.0001) .OR. (IMO4YK<-1> .LT. 0.0001))
F     *THEN
C ... IMO4NT    ALBERTA          MAN-LEATHER              I/O EMPLOYMENT
E 256 IMO4NT=IMO4YK*(MM04NT/MM04YK)
C-
F      ELSE
C ... IMO4NT    ALBERTA          MAN-LEATHER              I/O EMPLOYMENT
E 256 IMO4NT=IMO4YK*(IMO4NT<-1>/(IMO4YK<-1>))*
O2     ((MM04NT/MM04YK)/(MM04NT<-1>/MM04YK<-1>))
C-
F      END IF
S      IF ((JMO4NT<-1> .LT. 0.0001) .OR. (JMO4YK<-1> .LT. 0.0001))
F     *THEN
C ... JMO4NT    B.C.             MAN-LEATHER              I/O EMPLOYMENT
E 257 JMO4NT=JMO4YK*(MM04NT/MM04YK)
C-
F      ELSE
C ... JMO4NT    B.C.             MAN-LEATHER              I/O EMPLOYMENT
E 257 JMO4NT=JMO4YK*(JMO4NT<-1>/(JMO4YK<-1>))*
O2     ((MM04NT/MM04YK)/(MM04NT<-1>/MM04YK<-1>))
C-
F      END IF
S      IF ((TMO4NT<-1> .LT. 0.0001) .OR. (TMO4YK<-1> .LT. 0.0001))
F     *THEN
C ... TMO4NT    TERRITORIES      MAN-LEATHER              I/O EMPLOYMENT
```

```
E 258 TM04NT=TM04YK*(MM04NT/MM04YK)
C-
F     ELSE
C ... TM04NT    TERRITORIES     MAN-LEATHER            I/O EMPLOYMENT
E 258 TM04NT=TM04YK*(TM04NT<-1>/(TM04YK<-1>))*
02    ((MM04NT/MM04YK)/(MM04NT<-1>/MM04YK<-1>))
C-
F     END IF
S     I='AM04NT'-'AAGONT'+1.0
S     J='AAGONT'+I-1
S     CALL SHRAD4(S(I),C(I),M04NET,ADJ,11,E(J),X(I),J,0)
C ... SM04NT    B.C.+TER.       MAN-LEATHER            I/O EMPLOYMENT
E 259 SM04NT=JM04NT+TM04NT
C-
C ... MM04NT    CANADA          MAN-LEATHER            I/O EMPLOYMENT
E 260 MM04NT=AM04NT+BM04NT+CM04NT+DM04NT+EM04NT+FM04NT+GM04NT+HM04NT+IM04NT+
02    SM04NT
C-
S     IF ((AM05NT<-1> .LT. 0.0001) .OR. (AM05YK<-1> .LT. 0.0001))
F    *THEN
C ... AM05NT    NEWFOUNDLAND    MAN-TEXTILES           I/O EMPLOYMENT
E 261 AM05NT=AM05YK*(MM05NT/MM05YK)
C-
F     ELSE
C ... AM05NT    NEWFOUNDLAND    MAN-TEXTILES           I/O EMPLOYMENT
E 261 AM05NT=AM05YK*(AM05NT<-1>/(AM05YK<-1>))*
02    ((MM05NT/MM05YK)/(MM05NT<-1>/MM05YK<-1>))
C-
F     END IF
S     IF ((BM05NT<-1> .LT. 0.0001) .OR. (BM05YK<-1> .LT. 0.0001))
F    *THEN
C ... BM05NT    P.E.I.          MAN-TEXTILES           I/O EMPLOYMENT
E 262 BM05NT=BM05YK*(MM05NT/MM05YK)
C-
F     ELSE
C ... BM05NT    P.E.I.          MAN-TEXTILES           I/O EMPLOYMENT
E 262 BM05NT=BM05YK*(BM05NT<-1>/(BM05YK<-1>))*
02    ((MM05NT/MM05YK)/(MM05NT<-1>/MM05YK<-1>))
C-
F     END IF
C ... CM05NT    NOVA SCOTIA     MAN-TEXTILES           I/O EMPLOYMENT
E 263 CM05NT=1000*CM05YK*(1/(B+B*1000*(MM05YK/MM05NT)))
C- B(01)= -320.9793    [  -0.11] B(02)= 0.8392978    [   3.28]
C- RB2=0.49 DW=2.52 S.E.E.=  1141.178     AAPE=  8.94
C- 1971-1981
C-
S     IF ((DM05NT<-1> .LT. 0.0001) .OR. (DM05YK<-1> .LT. 0.0001))
F    *THEN
C ... DM05NT    NEW BRUNSWICK   MAN-TEXTILES           I/O EMPLOYMENT
E 264 DM05NT=DM05YK*(MM05NT/MM05YK)
C-
F     ELSE
```


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PROVINCIAL ESTIMATION RESULTS
PRIMARY AND SECONDARY EMPLOYMENT BY PROVINCE


C ... DM05NT    NEW BRUNSWICK   MAN-TEXTILES            I/O EMPLOYMENT
E 264 DM05NT=DM05YK*(DM05NT<-1>/(DM05YK<-1>))*
02     ((MM05NT/MM05YK)/(MM05NT<-1>/MM05YK<-1>))
C-
F      END IF
C ... EM05NT    QUEBEC          MAN-TEXTILES            I/O EMPLOYMENT
E 265 EM05NT=1000*EM05YK*(1/(B+B*1000*(MM05YK/MM05NT)))
C- B(01)=  1408.448     [   2.59] B(02)= 0.7696182     [  15.95]
C- R32=0.96 DW=1.82 S.E.E.=  215.1187      AAPE=  1.73
C- 1971-1981
C-
C ... FM05NT    ONTARIO         MAN-TEXTILES            I/O EMPLOYMENT
E 266 FM05NT=1000*FM05YK*(1/(B+B*1000*(MM05YK/MM05NT)))
C- B(01)= -743.7134     [  -1.34] B(02)=  1.213232     [  24.75]
C- RB2=0.98 DW=1.73 S.E.E.=  218.5324      AAPE=  1.42
C- 1971-1981
C-
C ... GM05NT    MANITOBA        MAN-TEXTILES            I/O EMPLOYMENT
E 267 GM05NT=1000*GM05YK*(1/(B+B*1000*(MM05YK/MM05NT)))
C- B(01)=  979.6280     [   0.64] B(02)= 0.4916187     [   3.65]
C- RB2=0.55 DW=2.66 S.E.E.=  600.5235      AAPE=  6.48
C- 1971-1981
C-
S      IF ((HM05NT<-1> .LT. 0.0001) .OR. (HM05YK<-1> .LT. 0.0001))
F     *THEN
C ... HM05NT    SASKATCHEWAN    MAN-TEXTILES            I/O EMPLOYMENT
E 268 HM05NT=HM05YK*(MM05NT/MM05YK)
C-
F      ELSE
C ... HM05NT    SASKATCHEWAN    MAN-TEXTILES            I/O EMPLOYMENT
E 268 HM05NT=HM05YK*(HM05NT<-1>/(HM05YK<-1>))*
02     ((MM05NT/MM05YK)/(MM05NT<-1>/MM05YK<-1>))
C-
F      END IF
S      IF ((IM05NT<-1> .LT. 0.0001) .OR. (IM05YK<-1> .LT. 0.0001))
F     *THEN
C ... IM05NT    ALBERTA         MAN-TEXTILES            I/O EMPLOYMENT
E 269 IM05NT=IM05YK*(MM05NT/MM05YK)
C-
F      ELSE
C ... IM05NT    ALBERTA         MAN-TEXTILES            I/O EMPLOYMENT
E 269 IM05NT=IM05YK*(IM05NT<-1>/(IM05YK<-1>))*
02     ((MM05NT/MM05YK)/(MM05NT<-1>/MM05YK<-1>))
C-
F      END IF
S      IF ((JM05NT<-1> .LT. 0.0001) .OR. (JM05YK<-1> .LT. 0.0001))
F     *THEN
C ... JM05NT    B.C.            MAN-TEXTILES            I/O EMPLOYMENT
E 270 JM05NT=JM05YK*(MM05NT/MM05YK)
C-
F      ELSE
C ... JM05NT    B.C.            MAN-TEXTILES            I/O EMPLOYMENT
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E 270 JM05NT=JM05YK*(JM05NT<-1>/(JM05YK<-1>))*
02     ((MM05NT/MM05YK)/(MM05NT<-1>/MM05YK<-1>))
C-
F      END IF
S      IF ((TM05NT<-1> .LT. 0.0001) .OR. (TM05YK<-1> .LT. 0.0001))
F     *THEN
C ... TM05NT    TERRITORIES      MAN-TEXTILES            I/O EMPLOYMENT
E 271 TM05NT=TM05YK*(MM05NT/MM05YK)
C-
F      ELSE
C ... TM05NT    TERRITORIES      MAN-TEXTILES            I/O EMPLOYMENT
E 271 TM05NT=TM05YK*(TM05NT<-1>/(TM05YK<-1>))*
02     ((MM05NT/MM05YK)/(MM05NT<-1>/MM05YK<-1>))
C-
F      END IF
S      I='AM05NT'-'AAGONT'+1.0
S      J='AAGONT'+I-1
S      CALL SHRAD4(S(I),C(I),M05NET,ADJ,11,E(J),X(I),J,0)
C ... SM05NT    B.C.+TER.        MAN-TEXTILES            I/O EMPLOYMENT
E 272 SM05NT=JM05NT+TM05NT
C-
C ... MM05NT    CANADA           MAN-TEXTILES            I/O EMPLOYMENT
E 273 MM05NT=AM05NT+BM05NT+CM05NT+DM05NT+EM05NT+FM05NT+GM05NT+HM05NT+IM05NT+
02     SM05NT
C-
S      IF ((AM67NT<-1> .LT. 0.0001) .OR. (AM67YK<-1> .LT. 0.0001))
F     *THEN
C ... AM67NT    NEWFOUNDLAND     MAN-KNITTING+CLOTHING   I/O EMPLOYMENT
E 274 AM67NT=AM67YK*(MM67NT/MM67YK)
C-
F      ELSE
C ... AM67NT    NEWFOUNDLAND     MAN-KNITTING+CLOTHING   I/O EMPLOYMENT
E 274 AM67NT=AM67YK*(AM67NT<-1>/(AM67YK<-1>))*
02     ((MM67NT/MM67YK)/(MM67NT<-1>/MM67YK<-1>))
C-
F      END IF
S      IF ((BM67NT<-1> .LT. 0.0001) .OR. (BM67YK<-1> .LT. 0.0001))
F     *THEN
C ... BM67NT    P.E.I.           MAN-KNITTING+CLOTHING   I/O EMPLOYMENT
E 275 BM67NT=BM67YK*(MM67NT/MM67YK)
C-
F      ELSE
C ... BM67NT    P.E.I.           MAN-KNITTING+CLOTHING   I/O EMPLOYMENT
E 275 BM67NT=BM67YK*(BM67NT<-1>/(BM67YK<-1>))*
02     ((MM67NT/MM67YK)/(MM67NT<-1>/MM67YK<-1>))
C-
F      END IF
S      IF ((CM67NT<-1> .LT. 0.0001) .OR. (CM67YK<-1> .LT. 0.0001))
F     *THEN
C ... CM67NT    NOVA SCOTIA      MAN-KNITTING+CLOTHING   I/O EMPLOYMENT
E 276 CM67NT=CM67YK*(MM67NT/MM67YK)
C-
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```
F      ELSE
C ... CM67NT    NOVA SCOTIA      MAN-KNITTING+CLOTHING  I/O EMPLOYMENT
E 276 CM67NT=CM67YK*(CM67NT<-1>/(CM67YK<-1>))*
O2     ((MM67NT/MM67YK)/(MM67NT<-1>/MM67YK<-1>))
C-
F      END IF
S      IF ((DM67NT<-1> .LT. 0.0001) .OR. (DM67YK<-1> .LT. 0.0001))
F     *THEN
C ... DM67NT    NEW BRUNSWICK    MAN-KNITTING+CLOTHING  I/O EMPLOYMENT
E 277 DM67NT=DM67YK*(MM67NT/MM67YK)
C-
F      ELSE
C ... DM67NT    NEW BRUNSWICK    MAN-KNITTING+CLOTHING  I/O EMPLOYMENT
E 277 DM67NT=DM67YK*(DM67NT<-1>/(DM67YK<-1>))*
O2     ((MM67NT/MM67YK)/(MM67NT<-1>/MM67YK<-1>))
C-
F      END IF
C ... EM67NT    QUEBEC           MAN-KNITTING+CLOTHING  I/O EMPLOYMENT
E 278 EM67NT=1000*EM67YK*(1/(B+B*1000*(MM67YK/MM67NT)))
C- B(01)= -49.45782     [  -0.31] B(02)=  1.009611     [  47.34]
C- RB2=1.00 DW=2.21 S.E.E.=  46.93182      AAPE=  0.45
C- 1971-1981
C-
C ... FM67NT    ONTARIO          MAN-KNITTING+CLOTHING  I/O EMPLOYMENT
E 279 FM67NT=1000*FM67YK*(1/(B+B*1000*(MM67YK/MM67NT)))
C- B(01)=  475.2342     [   1.06] B(02)= 0.9599039     [  15.77]
C- RB2=0.96 DW=1.83 S.E.E.=  133.9942      AAPE=  1.39
C- 1971-1981
C-
C ... GM67NT    MANITOBA         MAN-KNITTING+CLOTHING  I/O EMPLOYMENT
E 280 GM67NT=1000*GM67YK*(1/(B+B*1000*(MM67YK/MM67NT)))
C- B(01)= -2001.558     [  -2.72] B(02)=  1.214471     [  12.19]
C- RB2=0.94 DW=1.42 S.E.E.=  219.2065      AAPE=  2.48
C- 1971-1981
C-
C ... HM67NT    SASKATCHEWAN     MAN-KNITTING+CLOTHING  I/O EMPLOYMENT
E 281 HM67NT=1000*HM67YK*(1/(B+B*1000*(MM67YK/MM67NT)))
C- B(01)=  800.1058     [   0.23] B(02)= 0.8445346     [   1.77]
C- RB2=0.18 DW=1.86 S.E.E.=  1047.994      AAPE=  9.15
C- 1971-1981
C-
C ... IM67NT    ALBERTA          MAN-KNITTING+CLOTHING  I/O EMPLOYMENT
E 282 IM67NT=1000*IM67YK*(1/(B+B*1000*(MM67YK/MM67NT)))
C- B(01)= -4333.182     [  -1.25] B(02)=  1.547024     [   3.29]
C- RB2=0.49 DW=0.96 S.E.E.=  1036.112      AAPE= 12.15
C- 1971-1981
C-
C ... JM67NT    B.C.             MAN-KNITTING+CLOTHING  I/O EMPLOYMENT
E 283 JM67NT=1000*JM67YK*(1/(B+B*1000*(MM67YK/MM67NT)))
C- B(01)=  459.9356     [   0.35] B(02)=  1.045261     [   5.87]
C- RB2=0.77 DW=1.88 S.E.E.=  391.6214      AAPE=  3.48
C- 1971-1981
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```
C-
S     IF ((TM67NT<-1> .LT. 0.0001) .OR. (TM67YK<-1> .LT. 0.0001))
F    *THEN
C ... TM67NT    TERRITORIES      MAN-KNITTING+CLOTHING  I/O EMPLOYMENT
E 284 TM67NT=TM67YK*(MM67NT/MM67YK)
C-
F     ELSE
C ... TM67NT    TERRITORIES      MAN-KNITTING+CLOTHING  I/O EMPLOYMENT
E 284 TM67NT=TM67YK*(TM67NT<-1>/(TM67YK<-1>))*
O2    ((MM67NT/MM67YK)/(MM67NT<-1>/MM67YK<-1>))
C-
F     END IF
S     I='AM67NT'-'AAGONT'+1.0
S     J='AAGONT'+I-1
S     CALL SHRAD4(S(I),C(I),M67NET,ADJ,11,E(J),X(1),J,0)
C ... SM67NT    B.C.+TER.        MAN-KNITTING+CLOTHING  I/O EMPLOYMENT
E 285 SM67NT=JM67NT+TM67NT
C-
C ... MM67NT    CANADA           MAN-KNITTING+CLOTHING  I/O EMPLOYMENT
E 286 MM67NT=AM67NT+BM67NT+CM67NT+DM67NT+EM67NT+FM67NT+GM67NT+HM67NT+IM67NT+
O2    SM67NT
C-
C ... AMO8NT    NEWFOUNDLAND     MAN-WOOD               I/O EMPLOYMENT
E 287 AMO8NT=1000*AMO8YK*(1/(B+B*1000*(MMO8YK/MMO8NT)))
C- B(01)= -2669.778     [  -1.26] B(02)= 0.8155158     [   3.75]
C- RB2=0.57 DW=1.85 S.E.E.=  614.6114     AAPE=  9.28
C- 1971-1981
C-
S     IF ((BMO8NT<-1> .LT. 0.0001) .OR. (BMO8YK<-1> .LT. 0.0001))
F    *THEN
C ... BMO8NT    P.E.I.           MAN-WOOD               I/O EMPLOYMENT
E 288 BMO8NT=BMO8YK*(MMO8NT/MMO8YK)
C-
F     ELSE
C ... BMO8NT    P.E.I.           MAN-WOOD               I/O EMPLOYMENT
E 288 BMO8NT=BMO8YK*(BMO8NT<-1>/(BMO8YK<-1>))*
O2    ((MMO8NT/MMO8YK)/(MMO8NT<-1>/MMO8YK<-1>))
C-
F     END IF
C ... CMO8NT    NOVA SCOTIA      MAN-WOOD               I/O EMPLOYMENT
E 289 CMO8NT=1000*CMO8YK*(1/(B+B*1000*(MMO8YK/MMO8NT)))
C- B(01)=  936.8721     [   0.71] B(02)= 0.6168000     [   4.54]
C- RB2=0.66 DW=1.85 S.E.E.=  383.8267     AAPE=  4.56
C- 1971-1981
C-
C ... DMO8NT    NEW BRUNSWICK    MAN-WOOD               I/O EMPLOYMENT
E 290 DMO8NT=1000*DMO8YK*(1/(B+B*1000*(MMO8YK/MMO8NT)))
C- B(01)= -1605.963     [  -1.04] B(02)= 0.8581114     [   5.45]
C- RB2=0.74 DW=1.74 S.E.E.=  445.4903     AAPE=  5.17
C- 1971-1981
C-
C ... EMO8NT    QUEBEC           MAN-WOOD               I/O EMPLOYMENT
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```
E 291 EM08NT=1000*EM08YK*(1/(B+B*1000*(MM08YK/MM08NT)))
C- B(01)=  121.9829     [   0.07] B(02)= 0.8529031     [   5.02]
C- RB2=0.71 DW=1.30 S.E.E.=  480.0661     AAPE=  4.15
C- 1971-1981
C-
S      IF ((FM08NT<-1> .LT. 0.0001) .OR. (FM08YK<-1> .LT. 0.0001))
F     *THEN
C ... FM08NT    ONTARIO          MAN-WOOD                 I/O EMPLOYMENT
E 292 FM08NT=FM08YK*(MM08NT/MM08YK)
C-
F      ELSE
C ... FM08NT    ONTARIO          MAN-WOOD                 I/O EMPLOYMENT
E 292 FM08NT=FM08YK*(FM08NT<-1>/(FM08YK<-1>))*
02     ((MM08NT/MM08YK)/(MM08NT<-1>/MM08YK<-1>))
C-
F      END IF
C ... GM08NT    MANITOBA         MAN-WOOD                 I/O EMPLOYMENT
E 293 GM08NT=1000*GM08YK*(1/(B+B*1000*(MM08YK/MM08NT)))
C- B(01)= -1339.796     [  -0.69] B(02)=  1.032191     [   5.21]
C- RB2=0.72 DW=1.83 S.E.E.=  560.4337     AAPE=  4.00
C- 1971-1981
C-
S      IF ((HM08NT<-1> .LT. 0.0001) .OR. (HM08YK<-1> .LT. 0.0001))
F     *THEN
C ... HM08NT    SASKATCHEWAN     MAN-WOOD                 I/O EMPLOYMENT
E 294 HM08NT=HM08YK*(MM08NT/MM08YK)
C-
F      ELSE
C ... HM08NT    SASKATCHEWAN     MAN-WOOD                 I/O EMPLOYMENT
E 294 HM08NT=HM08YK*(HM08NT<-1>/(HM08YK<-1>))*
02     ((MM08NT/MM08YK)/(MM08NT<-1>/MM08YK<-1>))
C-
F      END IF
C ... IM08NT    ALBERTA          MAN-WOOD                 I/O EMPLOYMENT
E 295 IM08NT=1000*IM08YK*(1/(B+B*1000*(MM08YK/MM08NT)))
C- B(01)=  1188.998     [   0.43] B(02)= 0.9050165     [   3.20]
C- RB2=0.48 DW=2.03 S.E.E.=  800.0205     AAPE=  5.92
C- 1971-1981
C-
C ... JM08NT    B.C.             MAN-WOOD                 I/O EMPLOYMENT
E 296 JM08NT=1000*JM08YK*(1/(B+B*1000*(MM08YK/MM08NT)))
C- B(01)= -2050.045     [  -1.55] B(02)=  1.360607     [  10.06]
C- RB2=0.91 DW=1.11 S.E.E.=  382.4202     AAPE=  2.31
C- 1971-1981
C-
S      IF ((TM08NT<-1> .LT. 0.0001) .OR. (TM08YK<-1> .LT. 0.0001))
F     *THEN
C ... TM08NT    TERRITORIES      MAN-WOOD                 I/O EMPLOYMENT
E 297 TM08NT=TM08YK*(MM08NT/MM08YK)
C-
F      ELSE
C ... TM08NT    TERRITORIES      MAN-WOOD                 I/O EMPLOYMENT
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```
E 297 TM08NT=TM08YK*(TM08NT<-1>/(TM08YK<-1>))*
02     ((MM08NT/MM08YK)/(MM08NT<-1>/MM08YK<-1>))
C-
F      END IF
S      I='AM08NT'-'AAGONT'+1.0
S      J='AAGONT'+I-1
S      CALL SHRAD4(S(I),C(I),M08NET,ADJ,11,E(J),X(I),J,0)
C ... SM08NT    B.C.+TER.        MAN-WOOD                  I/O EMPLOYMENT
E 298 SM08NT=JM08NT+TM08NT
C-
C ... MM08NT    CANADA           MAN-WOOD                  I/O EMPLOYMENT
E 299 MM08NT=AM08NT+BM08NT+CM08NT+DM08NT+EM08NT+FM08NT+GM08NT+HM08NT+IM08NT+
02     SM08NT
C-
S      IF ((AM09NT<-1> .LT. 0.0001) .OR. (AM09YK<-1> .LT. 0.0001))
F     *THEN
C ... AM09NT    NEWFOUNDLAND     MAN-FURNITURE             I/O EMPLOYMENT
E 300 AM09NT=AM09YK*(MM09NT/MM09YK)
C-
F      ELSE
C ... AM09NT    NEWFOUNDLAND     MAN-FURNITURE             I/O EMPLOYMENT
E 300 AM09NT=AM09YK*(AM09NT<-1>/(AM09YK<-1>))*
02     ((MM09NT/MM09YK)/(MM09NT<-1>/MM09YK<-1>))
C-
F      END IF
S      IF ((BM09NT<-1> .LT. 0.0001) .OR. (BM09YK<-1> .LT. 0.0001))
F     *THEN
C ... BM09NT    P.E.I.           MAN-FURNITURE             I/O EMPLOYMENT
E 301 BM09NT=BM09YK*(MM09NT/MM09YK)
C-
F      ELSE
C ... BM09NT    P.E.I.           MAN-FURNITURE             I/O EMPLOYMENT
E 301 BM09NT=BM09YK*(BM09NT<-1>/(BM09YK<-1>))*
02     ((MM09NT/MM09YK)/(MM09NT<-1>/MM09YK<-1>))
C-
F      END IF
S      IF ((CM09NT<-1> .LT. 0.0001) .OR. (CM09YK<-1> .LT. 0.0001))
F     *THEN
C ... CM09NT    NOVA SCOTIA      MAN-FURNITURE             I/O EMPLOYMENT
E 302 CM09NT=CM09YK*(MM09NT/MM09YK)
C-
F      ELSE
C ... CM09NT    NOVA SCOTIA      MAN-FURNITURE             I/O EMPLOYMENT
E 302 CM09NT=CM09YK*(CM09NT<-1>/(CM09YK<-1>))*
02     ((MM09NT/MM09YK)/(MM09NT<-1>/MM09YK<-1>))
C-
F      END IF
S      IF ((DM09NT<-1> .LT. 0.0001) .OR. (DM09YK<-1> .LT. 0.0001))
F     *THEN
C ... DM09NT    NEW BRUNSWICK    MAN-FURNITURE             I/O EMPLOYMENT
E 303 DM09NT=DM09YK*(MM09NT/MM09YK)
C-
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F      ELSE
C ... DM09NT    NEW BRUNSWICK   MAN-FURNITURE          I/O EMPLOYMENT
E 303 DM09NT=DM09YK*(DM09NT<-1>/(DM09YK<-1>))*
02     ((MM09NT/MM09YK)/(MM09NT<-1>/MM09YK<-1>))
C-
F      END IF
C ... EM09NT    QUEBEC          MAN-FURNITURE          I/O EMPLOYMENT
E 304 EM09NT=1000*EM09YK*(1/(B+B*1000*(MM09YK/MM09NT)))
C- B(01)=  1634.079     [   1.68] B(02)= 0.7420046     [   6.51]
C- RB2=0.81 DW=1.45 S.E.E.=  153.8527      AAPE=  1.18
C- 1971-1981
C-
C ... FM09NT    ONTARIO         MAN-FURNITURE          I/O EMPLOYMENT
E 305 FM09NT=1000*FM09YK*(1/(B+B*1000*(MM09YK/MM09NT)))
C- B(01)= -865.6259     [  -1.02] B(02)=  1.157425     [  11.57]
C- RB2=0.93 DW=1.14 S.E.E.=  135.0201      AAPE=  1.14
C- 1971-1981
C-
C ... GM09NT    MANITOBA        MAN-FURNITURE          I/O EMPLOYMENT
E 306 GM09NT=1000*GM09YK*(1/(B+B*1000*(MM09YK/MM09NT)))
C- B(01)= -1245.362     [  -0.45] B(02)=  1.049832     [   3.20]
C- RB2=0.48 DW=1.45 S.E.E.=  442.6365      AAPE=  4.24
C- 1971-1981
C-
S      IF ((HM09NT<-1> .LT. 0.0001) .OR. (HM09YK<-1> .LT. 0.0001))
F     *THEN
C ... HM09NT    SASKATCHEWAN    MAN-FURNITURE          I/O EMPLOYMENT
E 307 HM09NT=HM09YK*(MM09NT/MM09YK)
C-
F      ELSE
C ... HM09NT    SASKATCHEWAN    MAN-FURNITURE          I/O EMPLOYMENT
E 307 HM09NT=HM09YK*(HM09NT<-1>/(HM09YK<-1>))*
02     ((MM09NT/MM09YK)/(MM09NT<-1>/MM09YK<-1>))
C-
F      END IF
C ... IM09NT    ALBERTA         MAN-FURNITURE          I/O EMPLOYMENT
E 308 IM09NT=1000*IM09YK*(1/(B+B*1000*(MM09YK/MM09NT)))
C- B(01)= -1879.112     [  -0.48] B(02)=  1.314705     [   2.84]
C- RB2=0.41 DW=0.93 S.E.E.=  625.7605      AAPE=  4.96
C- 1971-1981
C-
S      IF ((JM09NT<-1> .LT. 0.0001) .OR. (JM09YK<-1> .LT. 0.0001))
F     *THEN
C ... JM09NT    B.C.            MAN-FURNITURE          I/O EMPLOYMENT
E 309 JM09NT=JM09YK*(MM09NT/MM09YK)
C-
F      ELSE
C ... JM09NT    B.C.            MAN-FURNITURE          I/O EMPLOYMENT
E 309 JM09NT=JM09YK*(JM09NT<-1>/(JM09YK<-1>))*
02     ((MM09NT/MM09YK)/(MM09NT<-1>/MM09YK<-1>))
C-
F      END IF
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S     IF ((TM09NT<-1> .LT. 0.0001) .OR. (TM09YK<-1> .LT. 0.0001))
F    *THEN
C ... TM09NT    TERRITORIES     MAN-FURNITURE          I/O EMPLOYMENT
E 310 TM09NT=TM09YK*(MM09NT/MM09YK)
C-
F     ELSE
C ... TM09NT    TERRITORIES     MAN-FURNITURE          I/O EMPLOYMENT
E 310 TM09NT=TM09YK*(TM09NT<-1>/(TM09YK<-1>))*
02    ((MM09NT/MM09YK)/(MM09NT<-1>/MM09YK<-1>))
C-
F     END IF
S     I='AM09NT'-'AAGONT'+1.0
S     J='AAGONT'+I-1
S     CALL SHRAD4(S(I),C(I),M09NET,ADJ,11,E(J),X(1),J,0)
C ... SM09NT    B.C.+TER.       MAN-FURNITURE          I/O EMPLOYMENT
E 311 SM09NT=JM09NT+TM09NT
C-
C ... MM09NT    CANADA          MAN-FURNITURE          I/O EMPLOYMENT
E 312 MM09NT=AM09NT+BM09NT+CM09NT+DM09NT+EM09NT+FM09NT+GM09NT+HM09NT+IM09NT+
02    SM09NT
C-
C ... AMP1NT    NEWFOUNDLAND    MAN-PULP+PAPER         I/O EMPLOYMENT
E 326 AMP1NT=1000*AMP1YK*(1/(B+B*1000*(MMP1YK/MMP1NT)))
C- B(01)=-0.1003433E-03[  -0.30] B(02)=  1.000000    [*******]
C- RB2=1.00 DW=2.51 S.E.E.= 0.4802125E-03 AAPE=******
C- 1971-1981
C-
S     IF ((BMP1NT<-1> .LT. 0.0001) .OR. (BMP1YK<-1> .LT. 0.0001))
F    *THEN
C ... BMP1NT    P.E.I.          MAN-PULP+PAPER         I/O EMPLOYMENT
E 327 BMP1NT=BMP1YK*(MMP1NT/MMP1YK)
C-
F     ELSE
C ... BMP1NT    P.E.I.          MAN-PULP+PAPER         I/O EMPLOYMENT
E 327 BMP1NT=BMP1YK*(BMP1NT<-1>/(BMP1YK<-1>))*
02    ((MMP1NT/MMP1YK)/(MMP1NT<-1>/MMP1YK<-1>))
C-
F     END IF
C ... CMP1NT    NOVA SCOTIA     MAN-PULP+PAPER         I/O EMPLOYMENT
E 328 CMP1NT=1000*CMP1YK*(1/(B+B*1000*(MMP1YK/MMP1NT)))
C- B(01)=-0.8150496E-04[  -0.26] B(02)=  1.000000    [*******]
C- RB2=1.00 DW=2.31 S.E.E.= 0.4479740E-03 AAPE=******
C- 1971-1981
C-
C ... DMP1NT    NEW BRUNSWICK   MAN-PULP+PAPER         I/O EMPLOYMENT
E 329 DMP1NT=1000*DMP1YK*(1/(B+B*1000*(MMP1YK/MMP1NT)))
C- B(01)=-0.1779111E-03[  -0.42] B(02)=  1.000000    [*******]
C- RB2=1.00 DW=1.07 S.E.E.= 0.6037881E-03 AAPE=******
C- 1971-1981
C-
C ... EMP1NT    QUEBEC          MAN-PULP+PAPER         I/O EMPLOYMENT
E 330 EMP1NT=1000*EMP1YK*(1/(B+B*1000*(MMP1YK/MMP1NT)))
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C- B(01)=-0.5923035E-04[  -0.20] B(02)=  1.000000     [*******]
C- RB2=1.00 DW=2.11 S.E.E.= 0.4296299E-03 AAPE=******
C- 1971-1981
C-
C ... FMP1NT    ONTARIO          MAN-PULP+PAPER          I/O EMPLOYMENT
E 331 FMP1NT=1000*FMP1YK*(1/(B+B*1000*(MMP1YK/MMP1NT)))
C- B(01)=-0.3003616E-04[  -0.10] B(02)=  1.000000     [*******]
C- RB2=1.00 DW=2.59 S.E.E.= 0.4249883E-03 AAPE=******
C- 1971-1981
C-
C ... GMP1NT    MANITOBA         MAN-PULP+PAPER          I/O EMPLOYMENT
E 332 GMP1NT=1000*GMP1YK*(1/(B+B*1000*(MMP1YK/MMP1NT)))
C- B(01)=-0.8182804E-04[  -0.40] B(02)=  1.000000     [*******]
C- RB2=1.00 DW=1.39 S.E.E.= 0.2978696E-03 AAPE=******
C- 1971-1981
C-
C ... HMP1NT    SASKATCHEWAN     MAN-PULP+PAPER          I/O EMPLOYMENT
E 333 HMP1NT=1000*HMP1YK*(1/(B+B*1000*(MMP1YK/MMP1NT)))
C- B(01)=-0.1415764E-03[  -0.41] B(02)=  1.000000     [*******]
C- RB2=1.00 DW=1.54 S.E.E.= 0.5011532E-03 AAPE=******
C- 1971-1981
C-
C ... IMP1NT    ALBERTA          MAN-PULP+PAPER          I/O EMPLOYMENT
E 334 IMP1NT=1000*IMP1YK*(1/(B+B*1000*(MMP1YK/MMP1NT)))
C- B(01)=-0.1073416E-03[  -0.28] B(02)=  1.000000     [*******]
C- RB2=1.00 DW=1.93 S.E.E.= 0.5565338E-03 AAPE=******
C- 1971-1981
C-
C ... JMP1NT    B.C.             MAN-PULP+PAPER          I/O EMPLOYMENT
E 335 JMP1NT=1000*JMP1YK*(1/(B+B*1000*(MMP1YK/MMP1NT)))
C- B(01)=-0.9653933E-04[  -0.21] B(02)=  1.000000     [*******]
C- RB2=1.00 DW=1.19 S.E.E.= 0.6619556E-03 AAPE=******
C- 1971-1981
C-
S     IF ((TMP1NT<-1> .LT. 0.0001) .OR. (TMP1YK<-1> .LT. 0.0001))
F    *THEN
C ... TMP1NT    TERRITORIES      MAN-PULP+PAPER          I/O EMPLOYMENT
E 336 TMP1NT=TMP1YK*(MMP1NT/MMP1YK)
C-
F     ELSE
C ... TMP1NT    TERRITORIES      MAN-PULP+PAPER          I/O EMPLOYMENT
E 336 TMP1NT=TMP1YK*(TMP1NT<-1>/(TMP1YK<-1>))*
O2    ((MMP1NT/MMP1YK)/(MMP1NT<-1>/MMP1YK<-1>))
C-
F     END IF
S     I='AMP1NT'-'AAGONT'+1.0
S     J='AAGONT'+I-1
S     CALL SHRAD4(S(I),C(I),MP1NET,ADJ,11,E(J),X(1),J,0)
C ... SMP1NT    B.C.+TER.        MAN-PULP+PAPER          I/O EMPLOYMENT
E 337 SMP1NT=JMP1NT+TMP1NT
C-
C ... MMP1NT    CANADA           MAN-PULP+PAPER          I/O EMPLOYMENT
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E 338 MMP1NT=AMP1NT+BMP1NT+CMP1NT+DMP1NT+EMP1NT+FMP1NT+GMP1NT+HMP1NT+IMP1NT+
02     SMP1NT
C-
S      IF ((AMP2NT<-1> .LT. 0.0001) .OR. (AMP2YK<-1> .LT. 0.0001))
F     *THEN
C ... AMP2NT    NEWFOUNDLAND    MAN PAPER CONVERTERS    I/O EMPLOYMENT
E 339 AMP2NT=AMP2YK*(MMP2NT/MMP2YK)
C-
F      ELSE
C ... AMP2NT    NEWFOUNDLAND    MAN PAPER CONVERTERS    I/O EMPLOYMENT
E 339 AMP2NT=AMP2YK*(AMP2NT<-1>/(AMP2YK<-1>))*
02     ((MMP2NT/MMP2YK)/(MMP2NT<-1>/MMP2YK<-1>))
C-
F      END IF
S      IF ((BMP2NT<-1> .LT. 0.0001) .OR. (BMP2YK<-1> .LT. 0.0001))
F     *THEN
C ... BMP2NT    P.E.I.          MAN PAPER CONVERTERS    I/O EMPLOYMENT
E 340 BMP2NT=BMP2YK*(MMP2NT/MMP2YK)
C-
F      ELSE
C ... BMP2NT    P.E.I.          MAN PAPER CONVERTERS    I/O EMPLOYMENT
E 340 BMP2NT=BMP2YK*(BMP2NT<-1>/(BMP2YK<-1>))*
02     ((MMP2NT/MMP2YK)/(MMP2NT<-1>/MMP2YK<-1>))
C-
F      END IF
C ... CMP2NT    NOVA SCOTIA     MAN PAPER CONVERTERS    I/O EMPLOYMENT
E 341 CMP2NT=1000*CMP2YK*(1/(B+B*1000*(MMP2YK/MMP2NT)))
C- B(01)= 0.1040779E-04[   0.05] B(02)=  1.000000     [*******]
C- RB2=1.00 DW=1.26 S.E.E.= 0.3107375E-03 AAPE=******
C- 1971-1981
C-
C ... DMP2NT    NEW BRUNSWICK   MAN PAPER CONVERTERS    I/O EMPLOYMENT
E 342 DMP2NT=1000*DMP2YK*(1/(B+B*1000*(MMP2YK/MMP2NT)))
C- B(01)= 0.1768739E-05[   0.01] B(02)=  1.000000     [*******]
C- RB2=1.00 DW=2.06 S.E.E.= 0.3624682E-03 AAPE=******
C- 1971-1981
C-
C ... EMP2NT    QUEBEC          MAN PAPER CONVERTERS    I/O EMPLOYMENT
E 343 EMP2NT=1000*EMP2YK*(1/(B+B*1000*(MMP2YK/MMP2NT)))
C- B(01)= 0.1984200E-04[   0.06] B(02)=  1.000000     [*******]
C- RB2=1.00 DW=2.41 S.E.E.= 0.4600482E-03 AAPE=******
C- 1971-1981
C-
C ... FMP2NT    ONTARIO         MAN PAPER CONVERTERS    I/O EMPLOYMENT
E 344 FMP2NT=1000*FMP2YK*(1/(B+B*1000*(MMP2YK/MMP2NT)))
C- B(01)=-0.2786847E-05[  -0.01] B(02)=  1.000000     [*******]
C- RB2=1.00 DW=2.79 S.E.E.= 0.5151510E-03 AAPE=******
C- 1971-1981
C-
C ... GMP2NT    MANITOBA        MAN PAPER CONVERTERS    I/O EMPLOYMENT
E 345 GMP2NT=1000*GMP2YK*(1/(B+B*1000*(MMP2YK/MMP2NT)))
C- B(01)=-0.1633064E-05[  -0.01] B(02)=  1.000000     [*******]
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C- RB2=1.00 DW=3.17 S.E.E.= 0.3322495E-03 AAPE=******
C- 1971-1981
C-
C ... HMP2NT    SASKATCHEWAN     MAN PAPER CONVERTERS    I/O EMPLOYMENT
E 346 HMP2NT=1000*HMP2YK*(1/(B+B*1000*(MMP2YK/MMP2NT)))
C- B(01)= 0.1589033E-04[   0.12] B(02)=  1.000000     [*******]
C- RB2=1.00 DW=1.59 S.E.E.= 0.1917952E-03 AAPE=******
C- 1971-1981
C-
C ... IMP2NT    ALBERTA          MAN PAPER CONVERTERS    I/O EMPLOYMENT
E 347 IMP2NT=1000*IMP2YK*(1/(B+B*1000*(MMP2YK/MMP2NT)))
C- B(01)= 0.1672230E-04[   0.10] B(02)=  1.000000     [*******]
C- RB2=1.00 DW=2.54 S.E.E.= 0.2459962E-03 AAPE=******
C- 1971-1981
C-
C ... JMP2NT    B.C.             MAN PAPER CONVERTERS    I/O EMPLOYMENT
E 348 JMP2NT=1000*JMP2YK*(1/(B+B*1000*(MMP2YK/MMP2NT)))
C- B(01)=-0.1109047E-04[  -0.03] B(02)=  1.000000     [*******]
C- RB2=1.00 DW=2.76 S.E.E.= 0.4966327E-03 AAPE=******
C- 1971-1981
C-
S     IF ((TMP2NT<-1> .LT. 0.0001) .OR. (TMP2YK<-1> .LT. 0.0001))
F    *THEN
C ... TMP2NT    TERRITORIES      MAN PAPER CONVERTERS    I/O EMPLOYMENT
E 349 TMP2NT=TMP2YK*(MMP2NT/MMP2YK)
C-
F     ELSE
C ... TMP2NT    TERRITORIES      MAN PAPER CONVERTERS    I/O EMPLOYMENT
E 349 TMP2NT=TMP2YK*(TMP2NT<-1>/(TMP2YK<-1>))*
O2    ((MMP2NT/MMP2YK)/(MMP2NT<-1>/MMP2YK<-1>))
C-
F     END IF
S     I='AMP2NT'-'AAGONT'+1.0
S     J='AAGONT'+I-1
S     CALL SHRAD4(S(I),C(I),MP2NET,ADJ,11,E(J),X(1),J,0)
C ... SMP2NT    B.C.+TER.        MAN PAPER CONVERTERS    I/O EMPLOYMENT
E 350 SMP2NT=JMP2NT+TMP2NT
C-
C ... MMP2NT    CANADA           MAN PAPER CONVERTERS    I/O EMPLOYMENT
E 351 MMP2NT=AMP2NT+BMP2NT+CMP2NT+DMP2NT+EMP2NT+FMP2NT+GMP2NT+HMP2NT+IMP2NT+
O2    SMP2NT
C-
C ... AM11NT    NEWFOUNDLAND     MAN-PRINT+PUBLISH       I/O EMPLOYMENT
E 352 AM11NT=1000*AM11YK*(1/(B+B*1000*(MM11YK/MM11NT)))
C- B(01)=  1399.004     [   0.48] B(02)= 0.8528287     [   3.79]
C- RB2=0.57 DW=0.92 S.E.E.=  953.1083     AAPE=  5.90
C- 1971-1981
C-
S     IF ((BM11NT<-1> .LT. 0.0001) .OR. (BM11YK<-1> .LT. 0.0001))
F    *THEN
C ... BM11NT    P.E.I.           MAN-PRINT+PUBLISH       I/O EMPLOYMENT
E 353 BM11NT=BM11YK*(MM11NT/MM11YK)
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C-
F      ELSE
C ... BM11NT    P.E.I.          MAN-PRINT+PUBLISH       I/O EMPLOYMENT
E 353 BM11NT=BM11YK*(BM11NT<-1>/(BM11YK<-1>))*
O2     ((MM11NT/MM11YK)/(MM11NT<-1>/MM11YK<-1>))
C-
F      END IF
C ... CM11NT    NOVA SCOTIA     MAN-PRINT+PUBLISH       I/O EMPLOYMENT
E 354 CM11NT=1000*CM11YK*(1/(B+B*1000*(MM11YK/MM11NT)))
C- B(01)= -1691.789     [  -0.84] B(02)=  1.069351     [   6.87]
C- RB2=0.82 DW=0.95 S.E.E.=  658.7662      AAPE=  4.30
C- 1971-1981
C-
C ... DM11NT    NEW BRUNSWICK   MAN-PRINT+PUBLISH       I/O EMPLOYMENT
E 355 DM11NT=1000*DM11YK*(1/(B+B*1000*(MM11YK/MM11NT)))
C- B(01)=  841.6935     [   0.89] B(02)= 0.7300461     [  10.08]
C- RB2=0.91 DW=1.91 S.E.E.=  306.6006      AAPE=  2.30
C- 1971-1981
C-
C ... EM11NT    QUEBEC          MAN-PRINT+PUBLISH       I/O EMPLOYMENT
E 356 EM11NT=1000*EM11YK*(1/(B+B*1000*(MM11YK/MM11NT)))
C- B(01)= -2437.957     [  -3.35] B(02)=  1.215935     [  21.74]
C- RB2=0.98 DW=1.48 S.E.E.=  236.6187      AAPE=  1.45
C- 1971-1981
C-
C ... FM11NT    ONTARIO         MAN-PRINT+PUBLISH       I/O EMPLOYMENT
E 357 FM11NT=1000*FM11YK*(1/(B+B*1000*(MM11YK/MM11NT)))
C- B(01)=  909.6846     [   1.42] B(02)= 0.9331446     [  18.89]
C- RB2=0.97 DW=1.05 S.E.E.=  209.0451      AAPE=  1.26
C- 1971-1981
C-
C ... GM11NT    MANITOBA        MAN-PRINT+PUBLISH       I/O EMPLOYMENT
E 358 GM11NT=1000*GM11YK*(1/(B+B*1000*(MM11YK/MM11NT)))
C- B(01)= -940.1105     [  -0.66] B(02)= 0.9267566     [   8.50]
C- RB2=0.88 DW=0.99 S.E.E.=  461.3230      AAPE=  2.87
C- 1971-1981
C-
C ... HM11NT    SASKATCHEWAN    MAN-PRINT+PUBLISH       I/O EMPLOYMENT
E 359 HM11NT=1000*HM11YK*(1/(B+B*1000*(MM11YK/MM11NT)))
C- B(01)= -4104.163     [  -3.40] B(02)=  1.200392     [  12.94]
C- RB2=0.94 DW=1.67 S.E.E.=  392.6324      AAPE=  2.63
C- 1971-1981
C-
C ... IM11NT    ALBERTA         MAN-PRINT+PUBLISH       I/O EMPLOYMENT
E 360 IM11NT=1000*IM11YK*(1/(B+B*1000*(MM11YK/MM11NT)))
C- B(01)= -1620.833     [  -1.41] B(02)=  1.195214     [  13.52]
C- RB2=0.95 DW=0.92 S.E.E.=  374.1910      AAPE=  2.06
C- 1971-1981
C-
S      IF ((JM11NT<-1> .LT. 0.0001) .OR. (JM11YK<-1> .LT. 0.0001))
F     *THEN
C ... JM11NT    B.C.            MAN-PRINT+PUBLISH       I/O EMPLOYMENT
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E 361 JM11NT=JM11YK*(MM11NT/MM11YK)
C-
F      ELSE
C ... JM11NT    B.C.              MAN-PRINT+PUBLISH       I/O EMPLOYMENT
E 361 JM11NT=JM11YK*(JM11NT<-1>/(JM11YK<-1>))*
02     ((MM11NT/MM11YK)/(MM11NT<-1>/MM11YK<-1>))
C-
F      END IF
S      IF ((TM11NT<-1> .LT. 0.0001) .OR. (TM11YK<-1> .LT. 0.0001))
F     *THEN
C ... TM11NT    TERRITORIES       MAN-PRINT+PUBLISH       I/O EMPLOYMENT
E 362 TM11NT=TM11YK*(MM11NT/MM11YK)
C-
F      ELSE
C ... TM11NT    TERRITORIES       MAN-PRINT+PUBLISH       I/O EMPLOYMENT
E 362 TM11NT=TM11YK*(TM11NT<-1>/(TM11YK<-1>))*
02     ((MM11NT/MM11YK)/(MM11NT<-1>/MM11YK<-1>))
C-
F      END IF
S      I='AM11NT'-'AAGONT'+1.0
S      J='AAGONT'+I-1
S      CALL SHRAD4(S(I),C(I),M11NET,ADJ,11,E(J),X(1),J,0)
C ... SM11NT    B.C.+TER.         MAN-PRINT+PUBLISH       I/O EMPLOYMENT
E 363 SM11NT=JM11NT+TM11NT
C-
C ... MM11NT    CANADA            MAN-PRINT+PUBLISH       I/O EMPLOYMENT
E 364 MM11NT=AM11NT+BM11NT+CM11NT+DM11NT+EM11NT+FM11NT+GM11NT+HM11NT+IM11NT+
02     SM11NT
C-
S      IF ((AMMTNT<-1> .LT. 0.0001) .OR. (AMMTYK<-1> .LT. 0.0001))
F     *THEN
C ... AMMTNT    NEWFOUNDLAND      MAN-PRIMARY METALS      I/O EMPLOYMENT
E 365 AMMTNT=AMMTYK*(MMMTNT/MMMTYK)
C-
F      ELSE
C ... AMMTNT    NEWFOUNDLAND      MAN-PRIMARY METALS      I/O EMPLOYMENT
E 365 AMMTNT=AMMTYK*(AMMTNT<-1>/(AMMTYK<-1>))*
02     ((MMMTNT/MMMTYK)/(MMMTNT<-1>/MMMTYK<-1>))
C-
F      END IF
S      IF ((BMMTNT<-1> .LT. 0.0001) .OR. (BMMTYK<-1> .LT. 0.0001))
F     *THEN
C ... BMMTNT    P.E.I.            MAN-PRIMARY METALS      I/O EMPLOYMENT
E 366 BMMTNT=BMMTYK*(MMMTNT/MMMTYK)
C-
F      ELSE
C ... BMMTNT    P.E.I.            MAN-PRIMARY METALS      I/O EMPLOYMENT
E 366 BMMTNT=BMMTYK*(BMMTNT<-1>/(BMMTYK<-1>))*
02     ((MMMTNT/MMMTYK)/(MMMTNT<-1>/MMMTYK<-1>))
C-
F      END IF
S      IF ((CMMTNT<-1> .LT. 0.0001) .OR. (CMMTYK<-1> .LT. 0.0001))
```


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```
F    *THEN
C ... CMMTNT    NOVA SCOTIA      MAN-PRIMARY METALS      I/O EMPLOYMENT
E 367 CMMTNT=CMMTYK*(MMMTNT/MMMTYK)
C-
F     ELSE
C ... CMMTNT    NOVA SCOTIA      MAN-PRIMARY METALS      I/O EMPLOYMENT
E 367 CMMTNT=CMMTYK*(CMMTNT<-1>/(CMMTYK<-1>))*
02    ((MMMTNT/MMMTYK)/(MMMTNT<-1>/MMMTYK<-1>))
C-
F     END IF
S     IF ((DMMTNT<-1> .LT. 0.0001) .OR. (DMMTYK<-1> .LT. 0.0001))
F    *THEN
C ... DMMTNT    NEW BRUNSWICK    MAN-PRIMARY METALS      I/O EMPLOYMENT
E 368 DMMTNT=DMMTYK*(MMMTNT/MMMTYK)
C-
F     ELSE
C ... DMMTNT    NEW BRUNSWICK    MAN-PRIMARY METALS      I/O EMPLOYMENT
E 368 DMMTNT=DMMTYK*(DMMTNT<-1>/(DMMTYK<-1>))*
02    ((MMMTNT/MMMTYK)/(MMMTNT<-1>/MMMTYK<-1>))
C-
F     END IF
C ... EMMTNT    QUEBEC           MAN-PRIMARY METALS      I/O EMPLOYMENT
E 369 EMMTNT=1000*EMMTYK*(1/(B+B*1000*(MMMTYK/MMMTNT)))
C- B(01)= -3464.387     [  -0.49] B(02)=  1.221498     [   2.68]
C- RB2=0.38 DW=2.51 S.E.E.=  899.6776     AAPE=  3.98
C- 1971-1981
C-
C ... FMMTNT    ONTARIO          MAN-PRIMARY METALS      I/O EMPLOYMENT
E 370 FMMTNT=1000*FMMTYK*(1/(B+B*1000*(MMMTYK/MMMTNT)))
C- B(01)=  2488.771     [   0.71] B(02)= 0.8682164     [   3.83]
C- RB2=0.58 DW=2.19 S.E.E.=  447.2018     AAPE=  2.06
C- 1971-1981
C-
S     IF ((GMMTNT<-1> .LT. 0.0001) .OR. (GMMTYK<-1> .LT. 0.0001))
F    *THEN
C ... GMMTNT    MANITOBA         MAN-PRIMARY METALS      I/O EMPLOYMENT
E 371 GMMTNT=GMMTYK*(MMMTNT/MMMTYK)
C-
F     ELSE
C ... GMMTNT    MANITOBA         MAN-PRIMARY METALS      I/O EMPLOYMENT
E 371 GMMTNT=GMMTYK*(GMMTNT<-1>/(GMMTYK<-1>))*
02    ((MMMTNT/MMMTYK)/(MMMTNT<-1>/MMMTYK<-1>))
C-
F     END IF
S     IF ((HMMTNT<-1> .LT. 0.0001) .OR. (HMMTYK<-1> .LT. 0.0001))
F    *THEN
C ... HMMTNT    SASKATCHEWAN     MAN-PRIMARY METALS      I/O EMPLOYMENT
E 372 HMMTNT=HMMTYK*(MMMTNT/MMMTYK)
C-
F     ELSE
C ... HMMTNT    SASKATCHEWAN     MAN-PRIMARY METALS      I/O EMPLOYMENT
E 372 HMMTNT=HMMTYK*(HMMTNT<-1>/(HMMTYK<-1>))*
```


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```
O2     ((MMMTNT/MMMTYK)/(MMMTNT<-1>/MMMTYK<-1>))
C-
F      END IF
S      IF ((IMMTNT<-1> .LT. 0.0001) .OR. (IMMTYK<-1> .LT. 0.0001))
F     *THEN
C ...  IMMTNT    ALBERTA          MAN-PRIMARY METALS      I/O EMPLOYMENT
E 373  IMMTNT=IMMTYK*(MMMTNT/MMMTYK)
C-
F      ELSE
C ...  IMMTNT    ALBERTA          MAN-PRIMARY METALS      I/O EMPLOYMENT
E 373  IMMTNT=IMMTYK*(IMMTNT<-1>/(IMMTYK<-1>))*
O2     ((MMMTNT/MMMTYK)/(MMMTNT<-1>/MMMTYK<-1>))
C-
F      END IF
C ...  JMMTNT    B.C.             MAN-PRIMARY METALS      I/O EMPLOYMENT
E 374  JMMTNT=1000*JMMTYK*(1/(B+B*1000*(MMMTYK/MMMTNT)))
C- B(01)= -8788.527     [  -0.90] B(02)=  1.559078     [   2.46]
C- RB2=0.33 DW=2.30 S.E.E.=  1251.749      AAPE=  5.18
C- 1971-1981
C-
S      IF ((TMMTNT<-1> .LT. 0.0001) .OR. (TMMTYK<-1> .LT. 0.0001))
F     *THEN
C ...  TMMTNT    TERRITORIES      MAN-PRIMARY METALS      I/O EMPLOYMENT
E 375  TMMTNT=TMMTYK*(MMMTNT/MMMTYK)
C-
F      ELSE
C ...  TMMTNT    TERRITORIES      MAN-PRIMARY METALS      I/O EMPLOYMENT
E 375  TMMTNT=TMMTYK*(TMMTNT<-1>/(TMMTYK<-1>))*
O2     ((MMMTNT/MMMTYK)/(MMMTNT<-1>/MMMTYK<-1>))
C-
F      END IF
S      I='AMMTNT'-'AAGONT'+1.0
S      J='AAGONT'+I-1
S      CALL SHRAD4(S(I),C(I),MMTNET,ADJ,11,E(J),X(I),J,0)
C ...  SMMTNT    B.C.+TER.        MAN-PRIMARY METALS      I/O EMPLOYMENT
E 376  SMMTNT=JMMTNT+TMMTNT
C-
C ...  MMMTNT    CANADA           MAN-PRIMARY METALS      I/O EMPLOYMENT
E 377  MMMTNT=AMMTNT+BMMTNT+CMMTNT+DMMTNT+EMMTNT+FMMTNT+GMMTNT+HMMTNT+IMMTNT+
O2     SMMTNT
C-
S      IF ((AM13NT<-1> .LT. 0.0001) .OR. (AM13YK<-1> .LT. 0.0001))
F     *THEN
C ...  AM13NT    NEWFOUNDLAND     MAN-METAL FABRICATING   I/O EMPLOYMENT
E 378  AM13NT=AM13YK*(MM13NT/MM13YK)
C-
F      ELSE
C ...  AM13NT    NEWFOUNDLAND     MAN-METAL FABRICATING   I/O EMPLOYMENT
E 378  AM13NT=AM13YK*(AM13NT<-1>/(AM13YK<-1>))*
O2     ((MM13NT/MM13YK)/(MM13NT<-1>/MM13YK<-1>))
C-
F      END IF
```


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```
S     IF ((BM13NT<-1> .LT. 0.0001) .OR. (BM13YK<-1> .LT. 0.0001))
F    *THEN
C ... BM13NT    P.E.I.          MAN-METAL FABRICATING  I/O EMPLOYMENT
E 379 BM13NT=BM13YK*(MM13NT/MM13YK)
C-
F     ELSE
C ... BM13NT    P.E.I.          MAN-METAL FABRICATING  I/O EMPLOYMENT
E 379 BM13NT=BM13YK*(BM13NT<-1>/(BM13YK<-1>))*
02    ((MM13NT/MM13YK)/(MM13NT<-1>/MM13YK<-1>))
C-
F     END IF
S     IF ((CM13NT<-1> .LT. 0.0001) .OR. (CM13YK<-1> .LT. 0.0001))
F    *THEN
C ... CM13NT    NOVA SCOTIA     MAN-METAL FABRICATING  I/O EMPLOYMENT
E 380 CM13NT=CM13YK*(MM13NT/MM13YK)
C-
F     ELSE
C ... CM13NT    NOVA SCOTIA     MAN-METAL FABRICATING  I/O EMPLOYMENT
E 380 CM13NT=CM13YK*(CM13NT<-1>/(CM13YK<-1>))*
02    ((MM13NT/MM13YK)/(MM13NT<-1>/MM13YK<-1>))
C-
F     END IF
S     IF ((DM13NT<-1> .LT. 0.0001) .OR. (DM13YK<-1> .LT. 0.0001))
F    *THEN
C ... DM13NT    NEW BRUNSWICK   MAN-METAL FABRICATING  I/O EMPLOYMENT
E 381 DM13NT=DM13YK*(MM13NT/MM13YK)
C-
F     ELSE
C ... DM13NT    NEW BRUNSWICK   MAN-METAL FABRICATING  I/O EMPLOYMENT
E 381 DM13NT=DM13YK*(DM13NT<-1>/(DM13YK<-1>))*
02    ((MM13NT/MM13YK)/(MM13NT<-1>/MM13YK<-1>))
C-
F     END IF
C ... EM13NT    QUEBEC          MAN-METAL FABRICATING  I/O EMPLOYMENT
E 382 EM13NT=1000*EM13YK*(1/(B+B*1000*(MM13YK/MM13NT)))
C- B(01)= -3092.573     [  -1.51] B(02)=  1.189088     [   7.34]
C- RB2=0.84 DW=2.26 S.E.E.=  278.4518      AAPE=  1.71
C- 1971-1981
C-
S     IF ((FM13NT<-1> .LT. 0.0001) .OR. (FM13YK<-1> .LT. 0.0001))
F    *THEN
C ... FM13NT    ONTARIO         MAN-METAL FABRICATING  I/O EMPLOYMENT
E 383 FM13NT=FM13YK*(MM13NT/MM13YK)
C-
F     ELSE
C ... FM13NT    ONTARIO         MAN-METAL FABRICATING  I/O EMPLOYMENT
E 383 FM13NT=FM13YK*(FM13NT<-1>/(FM13YK<-1>))*
02    ((MM13NT/MM13YK)/(MM13NT<-1>/MM13YK<-1>))
C-
F     END IF
S     IF ((GM13NT<-1> .LT. 0.0001) .OR. (GM13YK<-1> .LT. 0.0001))
F    *THEN
```


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PROVINCIAL ESTIMATION RESULTS
PRIMARY AND SECONDARY EMPLOYMENT BY PROVINCE


C ... GM13NT    MANITOBA          MAN-METAL FABRICATING  I/O EMPLOYMENT
E 384 GM13NT=GM13YK*(MM13NT/MM13YK)
C-
F     ELSE
C ... GM13NT    MANITOBA          MAN-METAL FABRICATING  I/O EMPLOYMENT
E 384 GM13NT=GM13YK*(GM13NT<-1>/(GM13YK<-1>))*
02    ((MM13NT/MM13YK)/(MM13NT<-1>/MM13YK<-1>))
C-
F     END IF
C ... HM13NT    SASKATCHEWAN      MAN-METAL FABRICATING  I/O EMPLOYMENT
E 385 HM13NT=1000*HM13YK*(1/(B+B*1000*(MM13YK/MM13NT)))
C- B(01)=  874.2403     [   0.13] B(02)= 0.8753374     [   1.60]
C- RB2=0.14 DW=1.24 S.E.E.=  940.3581      AAPE=  6.13
C- 1971-1981
C-
C ... IM13NT    ALBERTA           MAN-METAL FABRICATING  I/O EMPLOYMENT
E 386 IM13NT=1000*IM13YK*(1/(B+B*1000*(MM13YK/MM13NT)))
C- B(01)= -7990.208     [  -1.45] B(02)=  1.742530     [   4.02]
C- RB2=0.60 DW=1.49 S.E.E.=  745.8710      AAPE=  3.81
C- 1971-1981
C-
C ... JM13NT    B.C.              MAN-METAL FABRICATING  I/O EMPLOYMENT
E 387 JM13NT=1000*JM13YK*(1/(B+B*1000*(MM13YK/MM13NT)))
C- B(01)= -2090.505     [  -0.74] B(02)=  1.256981     [   5.62]
C- RB2=0.75 DW=2.17 S.E.E.=  384.3860      AAPE=  2.07
C- 1971-1981
C-
S     IF ((TM13NT<-1> .LT. 0.0001) .OR. (TM13YK<-1> .LT. 0.0001))
F    *THEN
C ... TM13NT    TERRITORIES       MAN-METAL FABRICATING  I/O EMPLOYMENT
E 388 TM13NT=TM13YK*(MM13NT/MM13YK)
C-
F     ELSE
C ... TM13NT    TERRITORIES       MAN-METAL FABRICATING  I/O EMPLOYMENT
E 388 TM13NT=TM13YK*(TM13NT<-1>/(TM13YK<-1>))*
02    ((MM13NT/MM13YK)/(MM13NT<-1>/MM13YK<-1>))
C-
F     END IF
S     I='AM13NT'-'AAGONT'+1.0
S     J='AAGONT'+I-1
S     CALL SHRAD4(S(I),C(I),M13NET,ADJ,11,E(J),X(1),J,0)
C ... SM13NT    B.C.+TER.         MAN-METAL FABRICATING  I/O EMPLOYMENT
E 389 SM13NT=JM13NT+TM13NT
C-
C ... MM13NT    CANADA            MAN-METAL FABRICATING  I/O EMPLOYMENT
E 390 MM13NT=AM13NT+BM13NT+CM13NT+DM13NT+EM13NT+FM13NT+GM13NT+HM13NT+IM13NT+
02    SM13NT
C-
S     IF ((AM14NT<-1> .LT. 0.0001) .OR. (AM14YK<-1> .LT. 0.0001))
F    *THEN
C ... AM14NT    NEWFOUNDLAND      MAN-MACHINERY          I/O EMPLOYMENT
E 391 AM14NT=AM14YK*(MM14NT/MM14YK)
```


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```
C-
F      ELSE
C ... AM14NT    NEWFOUNDLAND    MAN-MACHINERY          I/O EMPLOYMENT
E 391 AM14NT=AM14YK*(AM14NT<-1>/(AM14YK<-1>))*
O2     ((MM14NT/MM14YK)/(MM14NT<-1>/MM14YK<-1>))
C-
F      END IF
S      IF ((BM14NT<-1> .LT. 0.0001) .OR. (BM14YK<-1> .LT. 0.0001))
F     *THEN
C ... BM14NT    P.E.I.          MAN-MACHINERY          I/O EMPLOYMENT
E 392 BM14NT=BM14YK*(MM14NT/MM14YK)
C-
F      ELSE
C ... BM14NT    P.E.I.          MAN-MACHINERY          I/O EMPLOYMENT
E 392 BM14NT=BM14YK*(BM14NT<-1>/(BM14YK<-1>))*
O2     ((MM14NT/MM14YK)/(MM14NT<-1>/MM14YK<-1>))
C-
F      END IF
S      IF ((CM14NT<-1> .LT. 0.0001) .OR. (CM14YK<-1> .LT. 0.0001))
F     *THEN
C ... CM14NT    NOVA SCOTIA     MAN-MACHINERY          I/O EMPLOYMENT
E 393 CM14NT=CM14YK*(MM14NT/MM14YK)
C-
F      ELSE
C ... CM14NT    NOVA SCOTIA     MAN-MACHINERY          I/O EMPLOYMENT
E 393 CM14NT=CM14YK*(CM14NT<-1>/(CM14YK<-1>))*
O2     ((MM14NT/MM14YK)/(MM14NT<-1>/MM14YK<-1>))
C-
F      END IF
S      IF ((DM14NT<-1> .LT. 0.0001) .OR. (DM14YK<-1> .LT. 0.0001))
F     *THEN
C ... DM14NT    NEW BRUNSWICK   MAN-MACHINERY          I/O EMPLOYMENT
E 394 DM14NT=DM14YK*(MM14NT/MM14YK)
C-
F      ELSE
C ... DM14NT    NEW BRUNSWICK   MAN-MACHINERY          I/O EMPLOYMENT
E 394 DM14NT=DM14YK*(DM14NT<-1>/(DM14YK<-1>))*
O2     ((MM14NT/MM14YK)/(MM14NT<-1>/MM14YK<-1>))
C-
F      END IF
C ... EM14NT    QUEBEC          MAN-MACHINERY          I/O EMPLOYMENT
E 395 EM14NT=1000*EM14YK*(1/(B+B*1000*(MM14YK/MM14NT)))
C- B(01)= -312.0212     [  -0.17] B(02)= 0.9339622     [   7.10]
C- RB2=0.83 DW=1.31 S.E.E.=  650.8087     AAPE=  3.93
C- 1971-1981
C-
C ... FM14NT    ONTARIO         MAN-MACHINERY          I/O EMPLOYMENT
E 396 FM14NT=1000*FM14YK*(1/(B+B*1000*(MM14YK/MM14NT)))
C- B(01)= -1052.870     [  -1.58] B(02)=  1.141911     [  23.59]
C- RB2=0.98 DW=1.64 S.E.E.=  239.3682     AAPE=  1.29
C- 1971-1981
C-
```


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```
S      IF ((GM14NT<-1> .LT. 0.0001) .OR. (GM14YK<-1> .LT. 0.0001))
F     *THEN
C ... GM14NT    MANITOBA          MAN-MACHINERY          I/O EMPLOYMENT
E 397 GM14NT=GM14YK*(MM14NT/MM14YK)
C-
F      ELSE
C ... GM14NT    MANITOBA          MAN-MACHINERY          I/O EMPLOYMENT
E 397 GM14NT=GM14YK*(GM14NT<-1>/(GM14YK<-1>))*
O2     ((MM14NT/MM14YK)/(MM14NT<-1>/MM14YK<-1>))
C-
F      END IF
C ... HM14NT    SASKATCHEWAN      MAN-MACHINERY          I/O EMPLOYMENT
E 398 HM14NT=1000*HM14YK*(1/(B+B*1000*(MM14YK/MM14NT)))
C- B(01)=  2570.803     [   1.08] B(02)= 0.5917850     [   3.41]
C- RB2=0.52 DW=0.86 S.E.E.=  857.9651      AAPE=  6.89
C- 1971-1981
C-
S      IF ((IM14NT<-1> .LT. 0.0001) .OR. (IM14YK<-1> .LT. 0.0001))
F     *THEN
C ... IM14NT    ALBERTA           MAN-MACHINERY          I/O EMPLOYMENT
E 399 IM14NT=IM14YK*(MM14NT/MM14YK)
C-
F      ELSE
C ... IM14NT    ALBERTA           MAN-MACHINERY          I/O EMPLOYMENT
E 399 IM14NT=IM14YK*(IM14NT<-1>/(IM14YK<-1>))*
O2     ((MM14NT/MM14YK)/(MM14NT<-1>/MM14YK<-1>))
C-
F      END IF
C ... JM14NT    B.C.              MAN-MACHINERY          I/O EMPLOYMENT
E 400 JM14NT=1000*JM14YK*(1/(B+B*1000*(MM14YK/MM14NT)))
C- B(01)=  3431.542     [   1.19] B(02)= 0.7040956     [   3.35]
C- RB2=0.51 DW=1.73 S.E.E.=  1037.922      AAPE=  6.43
C- 1971-1981
C-
S      IF ((TM14NT<-1> .LT. 0.0001) .OR. (TM14YK<-1> .LT. 0.0001))
F     *THEN
C ... TM14NT    TERRITORIES       MAN-MACHINERY          I/O EMPLOYMENT
E 401 TM14NT=TM14YK*(MM14NT/MM14YK)
C-
F      ELSE
C ... TM14NT    TERRITORIES       MAN-MACHINERY          I/O EMPLOYMENT
E 401 TM14NT=TM14YK*(TM14NT<-1>/(TM14YK<-1>))*
O2     ((MM14NT/MM14YK)/(MM14NT<-1>/MM14YK<-1>))
C-
F      END IF
S      I='AM14NT'-'AAGONT'+1.0
S      J='AAGONT'+I-1
S      CALL SHRAD4(S(I),C(I),M14NET,ADJ,11,E(J),X(1),J,0)
C ... SM14NT    B.C.+TER.         MAN-MACHINERY          I/O EMPLOYMENT
E 402 SM14NT=JM14NT+TM14NT
C-
C ... MM14NT    CANADA            MAN-MACHINERY          I/O EMPLOYMENT
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```
E 403 MM14NT=AM14NT+BM14NT+CM14NT+DM14NT+EM14NT+FM14NT+GM14NT+HM14NT+IM14NT+
02    SM14NT
C-
S     IF ((AMT4NT<-1> .LT. 0.0001) .OR. (AMT4YK<-1> .LT. 0.0001))
F    *THEN
C ... AMT4NT    NEWFOUNDLAND    MAN-AIRCRAFT+PARTS     I/O EMPLOYMENT
E 443 AMT4NT=AMT4YK*(MMT4NT/MMT4YK)
C-
F     ELSE
C ... AMT4NT    NEWFOUNDLAND    MAN-AIRCRAFT+PARTS     I/O EMPLOYMENT
E 443 AMT4NT=AMT4YK*(AMT4NT<-1>/(AMT4YK<-1>))*
02    ((MMT4NT/MMT4YK)/(MMT4NT<-1>/MMT4YK<-1>))
C-
F     END IF
S     IF ((BMT4NT<-1> .LT. 0.0001) .OR. (BMT4YK<-1> .LT. 0.0001))
F    *THEN
C ... BMT4NT    P.E.I.          MAN-AIRCRAFT+PARTS     I/O EMPLOYMENT
E 444 BMT4NT=BMT4YK*(MMT4NT/MMT4YK)
C-
F     ELSE
C ... BMT4NT    P.E.I.          MAN-AIRCRAFT+PARTS     I/O EMPLOYMENT
E 444 BMT4NT=BMT4YK*(BMT4NT<-1>/(BMT4YK<-1>))*
02    ((MMT4NT/MMT4YK)/(MMT4NT<-1>/MMT4YK<-1>))
C-
F     END IF
S     IF ((CMT4NT<-1> .LT. 0.0001) .OR. (CMT4YK<-1> .LT. 0.0001))
F    *THEN
C ... CMT4NT    NOVA SCOTIA     MAN-AIRCRAFT+PARTS     I/O EMPLOYMENT
E 445 CMT4NT=CMT4YK*(MMT4NT/MMT4YK)
C-
F     ELSE
C ... CMT4NT    NOVA SCOTIA     MAN-AIRCRAFT+PARTS     I/O EMPLOYMENT
E 445 CMT4NT=CMT4YK*(CMT4NT<-1>/(CMT4YK<-1>))*
02    ((MMT4NT/MMT4YK)/(MMT4NT<-1>/MMT4YK<-1>))
C-
F     END IF
S     IF ((DMT4NT<-1> .LT. 0.0001) .OR. (DMT4YK<-1> .LT. 0.0001))
F    *THEN
C ... DMT4NT    NEW BRUNSWICK   MAN-AIRCRAFT+PARTS     I/O EMPLOYMENT
E 446 DMT4NT=DMT4YK*(MMT4NT/MMT4YK)
C-
F     ELSE
C ... DMT4NT    NEW BRUNSWICK   MAN-AIRCRAFT+PARTS     I/O EMPLOYMENT
E 446 DMT4NT=DMT4YK*(DMT4NT<-1>/(DMT4YK<-1>))*
02    ((MMT4NT/MMT4YK)/(MMT4NT<-1>/MMT4YK<-1>))
C-
F     END IF
S     IF ((EMT4NT<-1> .LT. 0.0001) .OR. (EMT4YK<-1> .LT. 0.0001))
F    *THEN
C ... EMT4NT    QUEBEC          MAN-AIRCRAFT+PARTS     I/O EMPLOYMENT
E 447 EMT4NT=EMT4YK*(MMT4NT/MMT4YK)
C-
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```
F      ELSE
C ... EMT4NT    QUEBEC          MAN-AIRCRAFT+PARTS      I/O EMPLOYMENT
E 447 EMT4NT=EMT4YK*(EMT4NT<-1>/(EMT4YK<-1>))*
O2     ((MMT4NT/MMT4YK)/(MMT4NT<-1>/MMT4YK<-1>))
C-
F      END IF
S      IF ((FMT4NT<-1> .LT. 0.0001) .OR. (FMT4YK<-1> .LT. 0.0001))
F     *THEN
C ... FMT4NT    ONTARIO         MAN-AIRCRAFT+PARTS      I/O EMPLOYMENT
E 448 FMT4NT=FMT4YK*(MMT4NT/MMT4YK)
C-
F      ELSE
C ... FMT4NT    ONTARIO         MAN-AIRCRAFT+PARTS      I/O EMPLOYMENT
E 448 FMT4NT=FMT4YK*(FMT4NT<-1>/(FMT4YK<-1>))*
O2     ((MMT4NT/MMT4YK)/(MMT4NT<-1>/MMT4YK<-1>))
C-
F      END IF
S      IF ((GMT4NT<-1> .LT. 0.0001) .OR. (GMT4YK<-1> .LT. 0.0001))
F     *THEN
C ... GMT4NT    MANITOBA        MAN-AIRCRAFT+PARTS      I/O EMPLOYMENT
E 449 GMT4NT=GMT4YK*(MMT4NT/MMT4YK)
C-
F      ELSE
C ... GMT4NT    MANITOBA        MAN-AIRCRAFT+PARTS      I/O EMPLOYMENT
E 449 GMT4NT=GMT4YK*(GMT4NT<-1>/(GMT4YK<-1>))*
O2     ((MMT4NT/MMT4YK)/(MMT4NT<-1>/MMT4YK<-1>))
C-
F      END IF
S      IF ((HMT4NT<-1> .LT. 0.0001) .OR. (HMT4YK<-1> .LT. 0.0001))
F     *THEN
C ... HMT4NT    SASKATCHEWAN    MAN-AIRCRAFT+PARTS      I/O EMPLOYMENT
E 450 HMT4NT=HMT4YK*(MMT4NT/MMT4YK)
C-
F      ELSE
C ... HMT4NT    SASKATCHEWAN    MAN-AIRCRAFT+PARTS      I/O EMPLOYMENT
E 450 HMT4NT=HMT4YK*(HMT4NT<-1>/(HMT4YK<-1>))*
O2     ((MMT4NT/MMT4YK)/(MMT4NT<-1>/MMT4YK<-1>))
C-
F      END IF
S      IF ((IMT4NT<-1> .LT. 0.0001) .OR. (IMT4YK<-1> .LT. 0.0001))
F     *THEN
C ... IMT4NT    ALBERTA         MAN-AIRCRAFT+PARTS      I/O EMPLOYMENT
E 451 IMT4NT=IMT4YK*(MMT4NT/MMT4YK)
C-
F      ELSE
C ... IMT4NT    ALBERTA         MAN-AIRCRAFT+PARTS      I/O EMPLOYMENT
E 451 IMT4NT=IMT4YK*(IMT4NT<-1>/(IMT4YK<-1>))*
O2     ((MMT4NT/MMT4YK)/(MMT4NT<-1>/MMT4YK<-1>))
C-
F      END IF
S      IF ((JMT4NT<-1> .LT. 0.0001) .OR. (JMT4YK<-1> .LT. 0.0001))
F     *THEN
```


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```
C ... JMT4NT    B.C.            MAN-AIRCRAFT+PARTS      I/O EMPLOYMENT
E 452 JMT4NT=JMT4YK*(MMT4NT/MMT4YK)
C-
F     ELSE
C ... JMT4NT    B.C.            MAN-AIRCRAFT+PARTS      I/O EMPLOYMENT
E 452 JMT4NT=JMT4YK*(JMT4NT<-1>/(JMT4YK<-1>))*
O2    ((MMT4NT/MMT4YK)/(MMT4NT<-1>/MMT4YK<-1>))
C-
F     END IF
S     IF ((TMT4NT<-1> .LT. 0.0001) .OR. (TMT4YK<-1> .LT. 0.0001))
F    *THEN
C ... TMT4NT    TERRITORIES     MAN-AIRCRAFT+PARTS      I/O EMPLOYMENT
E 453 TMT4NT=TMT4YK*(MMT4NT/MMT4YK)
C-
F     ELSE
C ... TMT4NT    TERRITORIES     MAN-AIRCRAFT+PARTS      I/O EMPLOYMENT
E 453 TMT4NT=TMT4YK*(TMT4NT<-1>/(TMT4YK<-1>))*
O2    ((MMT4NT/MMT4YK)/(MMT4NT<-1>/MMT4YK<-1>))
C-
F     END IF
S     I='AMT4NT'-'AAGONT'+1.0
S     J='AAGONT'+I-1
S     CALL SHRAD4(S(I),C(I),MT4NET,ADJ,11,E(J),X(I),J,0)
C ... SMT4NT    B.C.+TER.       MAN-AIRCRAFT+PARTS      I/O EMPLOYMENT
E 454 SMT4NT=JMT4NT+TMT4NT
C-
C ... MMT4NT    CANADA          MAN-AIRCRAFT+PARTS      I/O EMPLOYMENT
E 455 MMT4NT=AMT4NT+BMT4NT+CMT4NT+DMT4NT+EMT4NT+FMT4NT+GMT4NT+HMT4NT+IMT4NT+
O2    SMT4NT
C-
S     IF ((AMT6NT<-1> .LT. 0.0001) .OR. (AMT6YK<-1> .LT. 0.0001))
F    *THEN
C ... AMT6NT    NEWFOUNDLAND    MAN-SHIPBUILDING        I/O EMPLOYMENT
E 469 AMT6NT=AMT6YK*(MMT6NT/MMT6YK)
C-
F     ELSE
C ... AMT6NT    NEWFOUNDLAND    MAN-SHIPBUILDING        I/O EMPLOYMENT
E 469 AMT6NT=AMT6YK*(AMT6NT<-1>/(AMT6YK<-1>))*
O2    ((MMT6NT/MMT6YK)/(MMT6NT<-1>/MMT6YK<-1>))
C-
F     END IF
S     IF ((BMT6NT<-1> .LT. 0.0001) .OR. (BMT6YK<-1> .LT. 0.0001))
F    *THEN
C ... BMT6NT    P.E.I.          MAN-SHIPBUILDING        I/O EMPLOYMENT
E 470 BMT6NT=BMT6YK*(MMT6NT/MMT6YK)
C-
F     ELSE
C ... BMT6NT    P.E.I.          MAN-SHIPBUILDING        I/O EMPLOYMENT
E 470 BMT6NT=BMT6YK*(BMT6NT<-1>/(BMT6YK<-1>))*
O2    ((MMT6NT/MMT6YK)/(MMT6NT<-1>/MMT6YK<-1>))
C-
F     END IF
```


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```
S      IF ((CMT6NT<-1> .LT. 0.0001) .OR. (CMT6YK<-1> .LT. 0.0001))
F     *THEN
C ... CMT6NT     NOVA SCOTIA      MAN-SHIPBUILDING        I/O EMPLOYMENT
E 471 CMT6NT=CMT6YK*(MMT6NT/MMT6YK)
C-
F      ELSE
C ... CMT6NT     NOVA SCOTIA      MAN-SHIPBUILDING        I/O EMPLOYMENT
E 471 CMT6NT=CMT6YK*(CMT6NT<-1>/(CMT6YK<-1>))*
02     ((MMT6NT/MMT6YK)/(MMT6NT<-1>/MMT6YK<-1>))
C-
F      END IF
S      IF ((DMT6NT<-1> .LT. 0.0001) .OR. (DMT6YK<-1> .LT. 0.0001))
F     *THEN
C ... DMT6NT     NEW BRUNSWICK    MAN-SHIPBUILDING        I/O EMPLOYMENT
E 472 DMT6NT=DMT6YK*(MMT6NT/MMT6YK)
C-
F      ELSE
C ... DMT6NT     NEW BRUNSWICK    MAN-SHIPBUILDING        I/O EMPLOYMENT
E 472 DMT6NT=DMT6YK*(DMT6NT<-1>/(DMT6YK<-1>))*
02     ((MMT6NT/MMT6YK)/(MMT6NT<-1>/MMT6YK<-1>))
C-
F      END IF
S      IF ((EMT6NT<-1> .LT. 0.0001) .OR. (EMT6YK<-1> .LT. 0.0001))
F     *THEN
C ... EMT6NT     QUEBEC           MAN-SHIPBUILDING        I/O EMPLOYMENT
E 473 EMT6NT=EMT6YK*(MMT6NT/MMT6YK)
C-
F      ELSE
C ... EMT6NT     QUEBEC           MAN-SHIPBUILDING        I/O EMPLOYMENT
E 473 EMT6NT=EMT6YK*(EMT6NT<-1>/(EMT6YK<-1>))*
02     ((MMT6NT/MMT6YK)/(MMT6NT<-1>/MMT6YK<-1>))
C-
F      END IF
S      IF ((FMT6NT<-1> .LT. 0.0001) .OR. (FMT6YK<-1> .LT. 0.0001))
F     *THEN
C ... FMT6NT     ONTARIO          MAN-SHIPBUILDING        I/O EMPLOYMENT
E 474 FMT6NT=FMT6YK*(MMT6NT/MMT6YK)
C-
F      ELSE
C ... FMT6NT     ONTARIO          MAN-SHIPBUILDING        I/O EMPLOYMENT
E 474 FMT6NT=FMT6YK*(FMT6NT<-1>/(FMT6YK<-1>))*
02     ((MMT6NT/MMT6YK)/(MMT6NT<-1>/MMT6YK<-1>))
C-
F      END IF
S      IF ((GMT6NT<-1> .LT. 0.0001) .OR. (GMT6YK<-1> .LT. 0.0001))
F     *THEN
C ... GMT6NT     MANITOBA         MAN-SHIPBUILDING        I/O EMPLOYMENT
E 475 GMT6NT=GMT6YK*(MMT6NT/MMT6YK)
C-
F      ELSE
C ... GMT6NT     MANITOBA         MAN-SHIPBUILDING        I/O EMPLOYMENT
E 475 GMT6NT=GMT6YK*(GMT6NT<-1>/(GMT6YK<-1>))*
```


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```
O2     (('MMT6NT/MMT6YK)/(MMT6NT<-1>/MMT6YK<-1>))
C-
F      END IF
S      IF ((HMT6NT<-1> .LT. 0.0001) .OR. (HMT6YK<-1> .LT. 0.0001))
F     *THEN
C ...  HMT6NT    SASKATCHEWAN    MAN-SHIPBUILDING        I/O EMPLOYMENT
E 476  HMT6NT=HMT6YK*(MMT6NT/MMT6YK)
C-
F      ELSE
C ...  HMT6NT    SASKATCHEWAN    MAN-SHIPBUILDING        I/O EMPLOYMENT
E 476  HMT6NT=HMT6YK*(HMT6NT<-1>/(HMT6YK<-1>))*
O2     ((MMT6NT/MMT6YK)/(MMT6NT<-1>/MMT6YK<-1>))
C-
F      END IF
S      IF ((IMT6NT<-1> .LT. 0.0001) .OR. (IMT6YK<-1> .LT. 0.0001))
F     *THEN
C ...  IMT6NT    ALBERTA         MAN-SHIPBUILDING        I/O EMPLOYMENT
E 477  IMT6NT=IMT6YK*(MMT6NT/MMT6YK)
C-
F      ELSE
C ...  IMT6NT    ALBERTA         MAN-SHIPBUILDING        I/O EMPLOYMENT
E 477  IMT6NT=IMT6YK*(IMT6NT<-1>/(IMT6YK<-1>))*
O2     ((MMT6NT/MMT6YK)/(MMT6NT<-1>/MMT6YK<-1>))
C-
F      END IF
S      IF ((JMT6NT<-1> .LT. 0.0001) .OR. (JMT6YK<-1> .LT. 0.0001))
F     *THEN
C ...  JMT6NT    B.C.            MAN-SHIPBUILDING        I/O EMPLOYMENT
E 478  JMT6NT=JMT6YK*(MMT6NT/MMT6YK)
C-
F      ELSE
C ...  JMT6NT    B.C.            MAN-SHIPBUILDING        I/O EMPLOYMENT
E 478  JMT6NT=JMT6YK*(JMT6NT<-1>/(JMT6YK<-1>))*
O2     ((MMT6NT/MMT6YK)/(MMT6NT<-1>/MMT6YK<-1>))
C-
F      END IF
S      IF ((TMT6NT<-1> .LT. 0.0001) .OR. (TMT6YK<-1> .LT. 0.0001))
F     *THEN
C ...  TMT6NT    TERRITORIES     MAN-SHIPBUILDING        I/O EMPLOYMENT
E 479  TMT6NT=TMT6YK*(MMT6NT/MMT6YK)
C-
F      ELSE
C ...  TMT6NT    TERRITORIES     MAN-SHIPBUILDING        I/O EMPLOYMENT
E 479  TMT6NT=TMT6YK*(TMT6NT<-1>/(TMT6YK<-1>))*
O2     ((MMT6NT/MMT6YK)/(MMT6NT<-1>/MMT6YK<-1>))
C-
F      END IF
S      I='AMT6NT'-'AAGONT'+1.0
S      J='AAGONT'+I-1
S      CALL SHRAD4(S(I),C(I),MT6NET,ADJ,11,E(J),X(1),J,0)
C ...  SMT6NT    B.C.+TER.       MAN-SHIPBUILDING        I/O EMPLOYMENT
E 480  SMT6NT=JMT6NT+TMT6NT
```


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PROVINCIAL ESTIMATION RESULTS
PRIMARY AND SECONDARY EMPLOYMENT BY PROVINCE

```
C-
C ... MMT6NT    CANADA          MAN-SHIPBUILDING        I/O EMPLOYMENT
E 481 MMT6NT=AMT6NT+BMT6NT+CMT6NT+DMT6NT+EMT6NT+FMT6NT+GMT6NT+HMT6NT+IMT6NT+
02    SMT6NT
C-
S     IF ((AMTANT<-1> .LT. 0.0001) .OR. ((AMTOYK<-1>+AMT3YK<-1>) .LT. 0.0001))
F    *THEN
C ... AMTANT    NEWFOUNDLAND    MTO+MT3                 I/O EMPLOYMENT
E 495 AMTANT=(AMTOYK+AMT3YK)*(MMTANT/(MMTOYK+MMT3YK))
C-
F     ELSE
C ... AMTANT    NEWFOUNDLAND    MTO+MT3                 I/O EMPLOYMENT
E 495 AMTANT=(AMTOYK+AMT3YK)*(AMTANT<-1>/((AMTOYK+AMT3YK)<-1>))*
02    ((MMTANT/(MMTOYK+MMT3YK))/(MMTANT<-1>/(MMTOYK+MMT3YK)<-1>))
C-
F     END IF
S     IF ((BMTANT<-1> .LT. 0.0001) .OR. ((BMTOYK<-1>+BMT3YK<-1>) .LT. 0.0001))
F    *THEN
C ... BMTANT    P.E.I.          MTO+MT3                 I/O EMPLOYMENT
E 496 BMTANT=(BMTOYK+BMT3YK)*(MMTANT/(MMTOYK+MMT3YK))
C-
F     ELSE
C ... BMTANT    P.E.I.          MTO+MT3                 I/O EMPLOYMENT
E 496 BMTANT=(BMTOYK+BMT3YK)*(BMTANT<-1>/((BMTOYK+BMT3YK)<-1>))*
02    ((MMTANT/(MMTOYK+MMT3YK))/(MMTANT<-1>/(MMTOYK+MMT3YK)<-1>))
C-
F     END IF
S     IF ((CMTANT<-1> .LT. 0.0001) .OR. ((CMTOYK<-1>+CMT3YK<-1>) .LT. 0.0001))
F    *THEN
C ... CMTANT    NOVA SCOTIA     MTO+MT3                 I/O EMPLOYMENT
E 497 CMTANT=(CMTOYK+CMT3YK)*(MMTANT/(MMTOYK+MMT3YK))
C-
F     ELSE
C ... CMTANT    NOVA SCOTIA     MTO+MT3                 I/O EMPLOYMENT
E 497 CMTANT=(CMTOYK+CMT3YK)*(CMTANT<-1>/((CMTOYK+CMT3YK)<-1>))*
02    ((MMTANT/(MMTOYK+MMT3YK))/(MMTANT<-1>/(MMTOYK+MMT3YK)<-1>))
C-
F     END IF
S     IF ((DMTANT<-1> .LT. 0.0001) .OR. ((DMTOYK<-1>+DMT3YK<-1>) .LT. 0.0001))
F    *THEN
C ... DMTANT    NEW BRUNSWICK   MTO+MT3                 I/O EMPLOYMENT
E 498 DMTANT=(DMTOYK+DMT3YK)*(MMTANT/(MMTOYK+MMT3YK))
C-
F     ELSE
C ... DMTANT    NEW BRUNSWICK   MTO+MT3                 I/O EMPLOYMENT
E 498 DMTANT=(DMTOYK+DMT3YK)*(DMTANT<-1>/((DMTOYK+DMT3YK)<-1>))*
02    ((MMTANT/(MMTOYK+MMT3YK))/(MMTANT<-1>/(MMTOYK+MMT3YK)<-1>))
C-
F     END IF
S     IF ((EMTANT<-1> .LT. 0.0001) .OR. ((EMTOYK<-1>+EMT3YK<-1>) .LT. 0.0001))
F    *THEN
C ... EMTANT    QUEBEC          MTO+MT3                 I/O EMPLOYMENT
```


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```
E 499 EMTANT=(EMTOYK+EMT3YK)*(MMTANT/(MMTOYK+MMT3YK))
C-
F      ELSE
C ... EMTANT    QUEBEC          MTO+MT3                  I/O EMPLOYMENT
E 499 EMTANT=(EMTOYK+EMT3YK)*(EMTANT<-1>/((EMTOYK+EMT3YK)<-1>))*
02     ((MMTANT/(MMTOYK+MMT3YK))/(MMTANT<-1>/(MMTOYK+MMT3YK)<-1>))
C-
F      END IF
C ... FMTANT    ONTARIO         MTO+MT3                  I/O EMPLOYMENT
E 500 FMTANT=1000*(FMTOYK+FMT3YK)*(1/(B+B*1000*((MMTOYK+MMT3YK)/MMTANT)))
C- B(01)= -1207.188     [  -0.93] B(02)=  1.150985     [  19.68]
C- RB2=0.97 DW=0.37 S.E.E.=  511.6053     AAPE=  1.61
C- 1971-1981
C-
S      IF ((GMTANT<-1> .LT. 0.0001) .OR. ((GMTOYK<-1>+GMT3YK<-1>) .LT. 0.0001))
F     *THEN
C ... GMTANT    MANITOBA        MTO+MT3                  I/O EMPLOYMENT
E 501 GMTANT=(GMTOYK+GMT3YK)*(MMTANT/(MMTOYK+MMT3YK))
C-
F      ELSE
C ... GMTANT    MANITOBA        MTO+MT3                  I/O EMPLOYMENT
E 501 GMTANT=(GMTOYK+GMT3YK)*(GMTANT<-1>/((GMTOYK+GMT3YK)<-1>))*
02     ((MMTANT/(MMTOYK+MMT3YK))/(MMTANT<-1>/(MMTOYK+MMT3YK)<-1>))
C-
F      END IF
S      IF ((HMTANT<-1> .LT. 0.0001) .OR. ((HMTOYK<-1>+HMT3YK<-1>) .LT. 0.0001))
F     *THEN
C ... HMTANT    SASKATCHEWAN    MTO+MT3                  I/O EMPLOYMENT
E 502 HMTANT=(HMTOYK+HMT3YK)*(MMTANT/(MMTOYK+MMT3YK))
C-
F      ELSE
C ... HMTANT    SASKATCHEWAN    MTO+MT3                  I/O EMPLOYMENT
E 502 HMTANT=(HMTOYK+HMT3YK)*(HMTANT<-1>/((HMTOYK+HMT3YK)<-1>))*
02     ((MMTANT/(MMTOYK+MMT3YK))/(MMTANT<-1>/(MMTOYK+MMT3YK)<-1>))
C-
F      END IF
S      IF ((IMTANT<-1> .LT. 0.0001) .OR. ((IMTOYK<-1>+IMT3YK<-1>) .LT. 0.0001))
F     *THEN
C ... IMTANT    ALBERTA         MTO+MT3                  I/O EMPLOYMENT
E 503 IMTANT=(IMTOYK+IMT3YK)*(MMTANT/(MMTOYK+MMT3YK))
C-
F      ELSE
C ... IMTANT    ALBERTA         MTO+MT3                  I/O EMPLOYMENT
E 503 IMTANT=(IMTOYK+IMT3YK)*(IMTANT<-1>/((IMTOYK+IMT3YK)<-1>))*
02     ((MMTANT/(MMTOYK+MMT3YK))/(MMTANT<-1>/(MMTOYK+MMT3YK)<-1>))
C-
F      END IF
S      IF ((JMTANT<-1> .LT. 0.0001) .OR. ((JMTOYK<-1>+JMT3YK<-1>) .LT. 0.0001))
F     *THEN
C ... JMTANT    B.C.            MTO+MT3                  I/O EMPLOYMENT
E 504 JMTANT=(JMTOYK+JMT3YK)*(MMTANT/(MMTOYK+MMT3YK))
C-
```

```
F      ELSE
C ... JMTANT    B.C.            MTO+MT3                  I/O EMPLOYMENT
E 504 JMTANT=(JMTOYK+JMT3YK)*(JMTANT<-1>/((JMTOYK+JMT3YK)<-1>))*
O2     ((MMTANT/(MMTOYK+MMT3YK))/(MMTANT<-1>/(MMTOYK+MMT3YK)<-1>))
C-
F      END IF
S      IF ((TMTANT<-1> .LT. 0.0001) .OR. ((TMTOYK<-1>+TMT3YK<-1>) .LT. 0.0001))
F     *THEN
C ... TMTANT    TERRITORIES     MTO+MT3                  I/O EMPLOYMENT
E 505 TMTANT=(TMTOYK+TMT3YK)*(MMTANT/(MMTOYK+MMT3YK))
C-
F      ELSE
C ... TMTANT    TERRITORIES     MTO+MT3                  I/O EMPLOYMENT
E 505 TMTANT=(TMTOYK+TMT3YK)*(TMTANT<-1>/((TMTOYK+TMT3YK)<-1>))*
O2     ((MMTANT/(MMTOYK+MMT3YK))/(MMTANT<-1>/(MMTOYK+MMT3YK)<-1>))
C-
F      END IF
S      I='AMTANT'-'AAGONT'+1.0
S      J='AAGONT'+I-1
S      CALL SHRAD4(S(I),C(I),MTANET,ADJ,11,E(J),X(I),J,0)
C ... SMTANT    B.C.+TER.       MTO+MT3                  I/O EMPLOYMENT
E 506 SMTANT=JMTANT+TMTANT
C-
C ... MMTANT    CANADA          MTO+MT3                  I/O EMPLOYMENT
E 507 MMTANT=AMTANT+BMTANT+CMTANT+DMTANT+EMTANT+FMTANT+GMTANT+HMTANT+IMTANT+
O2     SMTANT
C-
S      IF ((AMTBNT<-1> .LT. 0.0001) .OR. ((AMT5YK<-1>+AMT7YK<-1>) .LT. 0.0001))
F     *THEN
C ... AMTBNT    NEWFOUNDLAND    MT5+MT7                  I/O EMPLOYMENT
E 508 AMTBNT=(AMT5YK+AMT7YK)*(MMTBNT/(MMT5YK+MMT7YK))
C-
F      ELSE
C ... AMTBNT    NEWFOUNDLAND    MT5+MT7                  I/O EMPLOYMENT
E 508 AMTBNT=(AMT5YK+AMT7YK)*(AMTBNT<-1>/((AMT5YK+AMT7YK)<-1>))*
O2     ((MMTBNT/(MMT5YK+MMT7YK))/(MMTBNT<-1>/(MMT5YK+MMT7YK)<-1>))
C-
F      END IF
S      IF ((BMTBNT<-1> .LT. 0.0001) .OR. ((BMT5YK<-1>+BMT7YK<-1>) .LT. 0.0001))
F     *THEN
C ... BMTBNT    P.E.I.          MT5+MT7                  I/O EMPLOYMENT
E 509 BMTBNT=(BMT5YK+BMT7YK)*(MMTBNT/(MMT5YK+MMT7YK))
C-
F      ELSE
C ... BMTBNT    P.E.I.          MT5+MT7                  I/O EMPLOYMENT
E 509 BMTBNT=(BMT5YK+BMT7YK)*(BMTBNT<-1>/((BMT5YK+BMT7YK)<-1>))*
O2     ((MMTBNT/(MMT5YK+MMT7YK))/(MMTBNT<-1>/(MMT5YK+MMT7YK)<-1>))
C-
F      END IF
S      IF ((CMTBNT<-1> .LT. 0.0001) .OR. ((CMT5YK<-1>+CMT7YK<-1>) .LT. 0.0001))
F     *THEN
C ... CMTBNT    NOVA SCOTIA     MT5+MT7                  I/O EMPLOYMENT
```


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```
E 510 CMTBNT=(CMT5YK+CMT7YK)*(MMTBNT/(MMT5YK+MMT7YK))
C-
F     ELSE
C ... CMTBNT    NOVA SCOTIA      MT5+MT7                    I/O EMPLOYMENT
E 510 CMTBNT=(CMT5YK+CMT7YK)*(CMTBNT<-1>/((CMT5YK+CMT7YK)<-1>))*
02    ((MMTBNT/(MMT5YK+MMT7YK))/(MMTBNT<-1>/(MMT5YK+MMT7YK)<-1>))
C-
F     END IF
S     IF ((DMTBNT<-1> .LT. 0.0001) .OR. ((DMT5YK<-1>+DMT7YK<-1>) .LT. 0.0001))
F    *THEN
C ... DMTBNT    NEW BRUNSWICK    MT5+MT7                    I/O EMPLOYMENT
E 511 DMTBNT=(DMT5YK+DMT7YK)*(MMTBNT/(MMT5YK+MMT7YK))
C-
F     ELSE
C ... DMTBNT    NEW BRUNSWICK    MT5+MT7                    I/O EMPLOYMENT
E 511 DMTBNT=(DMT5YK+DMT7YK)*(DMTBNT<-1>/((DMT5YK+DMT7YK)<-1>))*
02    ((MMTBNT/(MMT5YK+MMT7YK))/(MMTBNT<-1>/(MMT5YK+MMT7YK)<-1>))
C-
F     END IF
S     IF ((EMTBNT<-1> .LT. 0.0001) .OR. ((EMT5YK<-1>+EMT7YK<-1>) .LT. 0.0001))
F    *THEN
C ... EMTBNT    QUEBEC           MT5+MT7                    I/O EMPLOYMENT
E 512 EMTBNT=(EMT5YK+EMT7YK)*(MMTBNT/(MMT5YK+MMT7YK))
C-
F     ELSE
C ... EMTBNT    QUEBEC           MT5+MT7                    I/O EMPLOYMENT
E 512 EMTBNT=(EMT5YK+EMT7YK)*(EMTBNT<-1>/((EMT5YK+EMT7YK)<-1>))*
02    ((MMTBNT/(MMT5YK+MMT7YK))/(MMTBNT<-1>/(MMT5YK+MMT7YK)<-1>))
C-
F     END IF
S     IF ((FMTBNT<-1> .LT. 0.0001) .OR. ((FMT5YK<-1>+FMT7YK<-1>) .LT. 0.0001))
F    *THEN
C ... FMTBNT    ONTARIO          MT5+MT7                    I/O EMPLOYMENT
E 513 FMTBNT=(FMT5YK+FMT7YK)*(MMTBNT/(MMT5YK+MMT7YK))
C-
F     ELSE
C ... FMTBNT    ONTARIO          MT5+MT7                    I/O EMPLOYMENT
E 513 FMTBNT=(FMT5YK+FMT7YK)*(FMTBNT<-1>/((FMT5YK+FMT7YK)<-1>))*
02    ((MMTBNT/(MMT5YK+MMT7YK))/(MMTBNT<-1>/(MMT5YK+MMT7YK)<-1>))
C-
F     END IF
S     IF ((GMTBNT<-1> .LT. 0.0001) .OR. ((GMT5YK<-1>+GMT7YK<-1>) .LT. 0.0001))
F    *THEN
C ... GMTBNT    MANITOBA         MT5+MT7                    I/O EMPLOYMENT
E 514 GMTBNT=(GMT5YK+GMT7YK)*(MMTBNT/(MMT5YK+MMT7YK))
C-
F     ELSE
C ... GMTBNT    MANITOBA         MT5+MT7                    I/O EMPLOYMENT
E 514 GMTBNT=(GMT5YK+GMT7YK)*(GMTBNT<-1>/((GMT5YK+GMT7YK)<-1>))*
02    ((MMTBNT/(MMT5YK+MMT7YK))/(MMTBNT<-1>/(MMT5YK+MMT7YK)<-1>))
C-
F     END IF
```

```
S     IF ((HMTBNT<-1> .LT. 0.0001) .OR. ((HMT5YK<-1>+HMT7YK<-1>) .LT. 0.0001))
F    *THEN
C ... HMTBNT    SASKATCHEWAN    MT5+MT7                  I/O EMPLOYMENT
E 515 HMTBNT=(HMT5YK+HMT7YK)*(MMTBNT/(MMT5YK+MMT7YK))
C-
F     ELSE
C ... HMTBNT    SASKATCHEWAN    MT5+MT7                  I/O EMPLOYMENT
E 515 HMTBNT=(HMT5YK+HMT7YK)*(HMTBNT<-1>/((HMT5YK+HMT7YK)<-1>))*
02     ((MMTBNT/(MMT5YK+MMT7YK))/(MMTBNT<-1>/(MMT5YK+MMT7YK)<-1>))
C-
F     END IF
S     IF ((IMTBNT<-1> .LT. 0.0001) .OR. ((IMT5YK<-1>+IMT7YK<-1>) .LT. 0.0001))
F    *THEN
C ... IMTBNT    ALBERTA         MT5+MT7                  I/O EMPLOYMENT
E 516 IMTBNT=(IMT5YK+IMT7YK)*(MMTBNT/(MMT5YK+MMT7YK))
C-
F     ELSE
C ... IMTBNT    ALBERTA         MT5+MT7                  I/O EMPLOYMENT
E 516 IMTBNT=(IMT5YK+IMT7YK)*(IMTBNT<-1>/((IMT5YK+IMT7YK)<-1>))*
02     ((MMTBNT/(MMT5YK+MMT7YK))/(MMTBNT<-1>/(MMT5YK+MMT7YK)<-1>))
C-
F     END IF
S     IF ((JMTBNT<-1> .LT. 0.0001) .OR. ((JMT5YK<-1>+JMT7YK<-1>) .LT. 0.0001))
F    *THEN
C ... JMTBNT    B.C.            MT5+MT7                  I/O EMPLOYMENT
E 517 JMTBNT=(JMT5YK+JMT7YK)*(MMTBNT/(MMT5YK+MMT7YK))
C-
F     ELSE
C ... JMTBNT    B.C.            MT5+MT7                  I/O EMPLOYMENT
E 517 JMTBNT=(JMT5YK+JMT7YK)*(JMTBNT<-1>/((JMT5YK+JMT7YK)<-1>))*
02     ((MMTBNT/(MMT5YK+MMT7YK))/(MMTBNT<-1>/(MMT5YK+MMT7YK)<-1>))
C-
F     END IF
S     IF ((TMTBNT<-1> .LT. 0.0001) .OR. ((TMT5YK<-1>+TMT7YK<-1>) .LT. 0.0001))
F    *THEN
C ... TMTBNT    TERRITORIES     MT5+MT7                  I/O EMPLOYMENT
E 518 TMTBNT=(TMT5YK+TMT7YK)*(MMTBNT/(MMT5YK+MMT7YK))
C-
F     ELSE
C ... TMTBNT    TERRITORIES     MT5+MT7                  I/O EMPLOYMENT
E 518 TMTBNT=(TMT5YK+TMT7YK)*(TMTBNT<-1>/((TMT5YK+TMT7YK)<-1>))*
02     ((MMTBNT/(MMT5YK+MMT7YK))/(MMTBNT<-1>/(MMT5YK+MMT7YK)<-1>))
C-
F     END IF
S     I='AMTBNT'-'AAGONT'+1.0
S     J='AAGONT'+I-1
S     CALL SHRAD4(S(I),C(I),MTBNET,ADJ,11,E(J),X(I),J,0)
C ... SMTBNT    B.C.+TER.       MT5+MT7                  I/O EMPLOYMENT
E 519 SMTBNT=JMTBNT+TMTBNT
C-
C ... MMTBNT    CANADA          MT5+MT7                  I/O EMPLOYMENT
E 520 MMTBNT=AMTBNT+BMTBNT+CMTBNT+DMTBNT+EMTBNT+FMTBNT+GMTBNT+HMTBNT+IMTBNT+
```


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```
02    SMTBNT
C-
S     IF ((AM16NT<-1> .LT. 0.0001) .OR. (AM16YK<-1> .LT. 0.0001))
F    *THEN
C ... AM16NT    NEWFOUNDLAND    MAN-ELECTRICAL PROD.   I/O EMPLOYMENT
E 521 AM16NT=AM16YK*(MM16NT/MM16YK)
C-
F     ELSE
C ... AM16NT    NEWFOUNDLAND    MAN-ELECTRICAL PROD.   I/O EMPLOYMENT
E 521 AM16NT=AM16YK*(AM16NT<-1>/(AM16YK<-1>))*
02    ((MM16NT/MM16YK)/(MM16NT<-1>/MM16YK<-1>))
C-
F     END IF
S     IF ((BM16NT<-1> .LT. 0.0001) .OR. (BM16YK<-1> .LT. 0.0001))
F    *THEN
C ... BM16NT    P.E.I.          MAN-ELECTRICAL PROD.   I/O EMPLOYMENT
E 522 BM16NT=BM16YK*(MM16NT/MM16YK)
C-
F     ELSE
C ... BM16NT    P.E.I.          MAN-ELECTRICAL PROD.   I/O EMPLOYMENT
E 522 BM16NT=BM16YK*(BM16NT<-1>/(BM16YK<-1>))*
02    ((MM16NT/MM16YK)/(MM16NT<-1>/MM16YK<-1>))
C-
F     END IF
S     IF ((CM16NT<-1> .LT. 0.0001) .OR. (CM16YK<-1> .LT. 0.0001))
F    *THEN
C ... CM16NT    NOVA SCOTIA     MAN-ELECTRICAL PROD.   I/O EMPLOYMENT
E 523 CM16NT=CM16YK*(MM16NT/MM16YK)
C-
F     ELSE
C ... CM16NT    NOVA SCOTIA     MAN-ELECTRICAL PROD.   I/O EMPLOYMENT
E 523 CM16NT=CM16YK*(CM16NT<-1>/(CM16YK<-1>))*
02    ((MM16NT/MM16YK)/(MM16NT<-1>/MM16YK<-1>))
C-
F     END IF
S     IF ((DM16NT<-1> .LT. 0.0001) .OR. (DM16YK<-1> .LT. 0.0001))
F    *THEN
C ... DM16NT    NEW BRUNSWICK   MAN-ELECTRICAL PROD.   I/O EMPLOYMENT
E 524 DM16NT=DM16YK*(MM16NT/MM16YK)
C-
F     ELSE
C ... DM16NT    NEW BRUNSWICK   MAN-ELECTRICAL PROD.   I/O EMPLOYMENT
E 524 DM16NT=DM16YK*(DM16NT<-1>/(DM16YK<-1>))*
02    ((MM16NT/MM16YK)/(MM16NT<-1>/MM16YK<-1>))
C-
F     END IF
C ... EM16NT    QUEBEC          MAN-ELECTRICAL PROD.   I/O EMPLOYMENT
E 525 EM16NT=1000*EM16YK*(1/(B+B*1000*(MM16YK/MM16NT)))
C- B(01)= -2331.949     [  -1.13] B(02)=  1.221540     [   7.81]
C- RB2=0.86 DW=1.15 S.E.E.=  603.1974      AAPE=  3.12
C- 1971-1981
C-
```


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```
C ... FM16NT    ONTARIO          MAN-ELECTRICAL PROD.    I/O EMPLOYMENT
E 526 FM16NT=1000*FM16YK*(1/(B+B*1000*(MM16YK/MM16NT)))
C- B(01)=  110.9128     [   0.14] B(02)=  1.003313     [  16.15]
C- RB2=0.96 DW=1.12 S.E.E.=  239.6914      AAPE=  1.21
C- 1971-1981
C-
S     IF ((GM16NT<-1> .LT. 0.0001) .OR. (GM16YK<-1> .LT. 0.0001))
F    *THEN
C ... GM16NT    MANITOBA         MAN-ELECTRICAL PROD.    I/O EMPLOYMENT
E 527 GM16NT=GM16YK*(MM16NT/MM16YK)
C-
F     ELSE
C ... GM16NT    MANITOBA         MAN-ELECTRICAL PROD.    I/O EMPLOYMENT
E 527 GM16NT=GM16YK*(GM16NT<-1>/(GM16YK<-1>))*
02    ((MM16NT/MM16YK)/(MM16NT<-1>/MM16YK<-1>))
C-
F     END IF
S     IF ((HM16NT<-1> .LT. 0.0001) .OR. (HM16YK<-1> .LT. 0.0001))
F    *THEN
C ... HM16NT    SASKATCHEWAN     MAN-ELECTRICAL PROD.    I/O EMPLOYMENT
E 528 HM16NT=HM16YK*(MM16NT/MM16YK)
C-
F     ELSE
C ... HM16NT    SASKATCHEWAN     MAN-ELECTRICAL PROD.    I/O EMPLOYMENT
E 528 HM16NT=HM16YK*(HM16NT<-1>/(HM16YK<-1>))*
02    ((MM16NT/MM16YK)/(MM16NT<-1>/MM16YK<-1>))
C-
F     END IF
S     IF ((IM16NT<-1> .LT. 0.0001) .OR. (IM16YK<-1> .LT. 0.0001))
F    *THEN
C ... IM16NT    ALBERTA          MAN-ELECTRICAL PROD.    I/O EMPLOYMENT
E 529 IM16NT=IM16YK*(MM16NT/MM16YK)
C-
F     ELSE
C ... IM16NT    ALBERTA          MAN-ELECTRICAL PROD.    I/O EMPLOYMENT
E 529 IM16NT=IM16YK*(IM16NT<-1>/(IM16YK<-1>))*
02    ((MM16NT/MM16YK)/(MM16NT<-1>/MM16YK<-1>))
C-
F     END IF
S     IF ((JM16NT<-1> .LT. 0.0001) .OR. (JM16YK<-1> .LT. 0.0001))
F    *THEN
C ... JM16NT    B.C.             MAN-ELECTRICAL PROD.    I/O EMPLOYMENT
E 530 JM16NT=JM16YK*(MM16NT/MM16YK)
C-
F     ELSE
C ... JM16NT    B.C.             MAN-ELECTRICAL PROD.    I/O EMPLOYMENT
E 530 JM16NT=JM16YK*(JM16NT<-1>/(JM16YK<-1>))*
02    ((MM16NT/MM16YK)/(MM16NT<-1>/MM16YK<-1>))
C-
F     END IF
S     IF ((TM16NT<-1> .LT. 0.0001) .OR. (TM16YK<-1> .LT. 0.0001))
F    *THEN
```


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```
C ... TM16NT    TERRITORIES     MAN-ELECTRICAL PROD.   I/O EMPLOYMENT
E 531 TM16NT=TM16YK*(MM16NT/MM16YK)
C-
F     ELSE
C ... TM16NT    TERRITORIES     MAN-ELECTRICAL PROD.   I/O EMPLOYMENT
E 531 TM16NT=TM16YK*(TM16NT<-1>/(TM16YK<-1>))*
02    ((MM16NT/MM16YK)/(MM16NT<-1>/MM16YK<-1>))
C-
F     END IF
S     I='AM16NT'-'AAGONT'+1.0
S     J='AAGONT'+I-1
S     CALL SHRAD4(S(I),C(I),M16NET,ADJ,11,E(J),X(I),J,0)
C ... SM16NT    B.C.+TER.       MAN-ELECTRICAL PROD.   I/O EMPLOYMENT
E 532 SM16NT=JM16NT+TM16NT
C-
C ... MM16NT    CANADA          MAN-ELECTRICAL PROD.   I/O EMPLOYMENT
E 533 MM16NT=AM16NT+BM16NT+CM16NT+DM16NT+EM16NT+FM16NT+GM16NT+HM16NT+IM16NT+
02    SM16NT
C-
S     IF ((AM17NT<-1> .LT. 0.0001) .OR. (AM17YK<-1> .LT. 0.0001))
F    *THEN
C ... AM17NT    NEWFOUNDLAND    MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 534 AM17NT=AM17YK*(MM17NT/MM17YK)
C-
F     ELSE
C ... AM17NT    NEWFOUNDLAND    MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 534 AM17NT=AM17YK*(AM17NT<-1>/(AM17YK<-1>))*
02    ((MM17NT/MM17YK)/(MM17NT<-1>/MM17YK<-1>))
C-
F     END IF
S     IF ((BM17NT<-1> .LT. 0.0001) .OR. (BM17YK<-1> .LT. 0.0001))
F    *THEN
C ... BM17NT    P.E.I.          MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 535 BM17NT=BM17YK*(MM17NT/MM17YK)
C-
F     ELSE
C ... BM17NT    P.E.I.          MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 535 BM17NT=BM17YK*(BM17NT<-1>/(BM17YK<-1>))*
02    ((MM17NT/MM17YK)/(MM17NT<-1>/MM17YK<-1>))
C-
F     END IF
S     IF ((CM17NT<-1> .LT. 0.0001) .OR. (CM17YK<-1> .LT. 0.0001))
F    *THEN
C ... CM17NT    NOVA SCOTIA     MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 536 CM17NT=CM17YK*(MM17NT/MM17YK)
C-
F     ELSE
C ... CM17NT    NOVA SCOTIA     MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 536 CM17NT=CM17YK*(CM17NT<-1>/(CM17YK<-1>))*
02    ((MM17NT/MM17YK)/(MM17NT<-1>/MM17YK<-1>))
C-
F     END IF
```


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```
S      IF ((DM17NT<-1> .LT. 0.0001) .OR. (DM17YK<-1> .LT. 0.0001))
F     *THEN
C ... DM17NT    NEW BRUNSWICK   MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 537 DM17NT=DM17YK*(MM17NT/MM17YK)
C-
F      ELSE
C ... DM17NT    NEW BRUNSWICK   MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 537 DM17NT=DM17YK*(DM17NT<-1>/(DM17YK<-1>))*
O2     ((MM17NT/MM17YK)/(MM17NT<-1>/MM17YK<-1>))
C-
F      END IF
S      IF ((EM17NT<-1> .LT. 0.0001) .OR. (EM17YK<-1> .LT. 0.0001))
F     *THEN
C ... EM17NT    QUEBEC          MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 538 EM17NT=EM17YK*(MM17NT/MM17YK)
C-
F      ELSE
C ... EM17NT    QUEBEC          MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 538 EM17NT=EM17YK*(EM17NT<-1>/(EM17YK<-1>))*
O2     ((MM17NT/MM17YK)/(MM17NT<-1>/MM17YK<-1>))
C-
F      END IF
C ... FM17NT    ONTARIO         MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 539 FM17NT=1000*FM17YK*(1/(B+B*1000*(MM17YK/MM17NT)))
C- B(01)=  463.0266    [   0.24] B(02)= 0.9492660    [   7.74]
C- RB2=0.85 DW=1.07 S.E.E.=  347.6629     AAPE=  1.78
C- 1971-1981
C-
S      IF ((GM17NT<-1> .LT. 0.0001) .OR. (GM17YK<-1> .LT. 0.0001))
F     *THEN
C ... GM17NT    MANITOBA        MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 540 GM17NT=GM17YK*(MM17NT/MM17YK)
C-
F      ELSE
C ... GM17NT    MANITOBA        MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 540 GM17NT=GM17YK*(GM17NT<-1>/(GM17YK<-1>))*
O2     ((MM17NT/MM17YK)/(MM17NT<-1>/MM17YK<-1>))
C-
F      END IF
S      IF ((HM17NT<-1> .LT. 0.0001) .OR. (HM17YK<-1> .LT. 0.0001))
F     *THEN
C ... HM17NT    SASKATCHEWAN    MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 541 HM17NT=HM17YK*(MM17NT/MM17YK)
C-
F      ELSE
C ... HM17NT    SASKATCHEWAN    MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 541 HM17NT=HM17YK*(HM17NT<-1>/(HM17YK<-1>))*
O2     ((MM17NT/MM17YK)/(MM17NT<-1>/MM17YK<-1>))
C-
F      END IF
C ... IM17NT    ALBERTA         MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 542 IM17NT=1000*IM17YK*(1/(B+B*1000*(MM17YK/MM17NT)))
```


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```
C- B(01)=  4888.958     [   0.61] B(02)= 0.9604566     [   1.93]
C- RB2=0.21 DW=0.83 S.E.E.=  1414.391      AAPE=  5.62
C- 1971-1981
C-
S      IF ((JM17NT<-1> .LT. 0.0001) .OR. (JM17YK<-1> .LT. 0.0001))
F     *THEN
C ... JM17NT     B.C.              MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 543 JM17NT=JM17YK*(MM17NT/MM17YK)
C-
F      ELSE
C ... JM17NT     B.C.              MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 543 JM17NT=JM17YK*(JM17NT<-1>/(JM17YK<-1>))*
02     ((MM17NT/MM17YK)/(MM17NT<-1>/MM17YK<-1>))
C-
F      END IF
S      IF ((TM17NT<-1> .LT. 0.0001) .OR. (TM17YK<-1> .LT. 0.0001))
F     *THEN
C ... TM17NT     TERRITORIES       MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 544 TM17NT=TM17YK*(MM17NT/MM17YK)
C-
F      ELSE
C ... TM17NT     TERRITORIES       MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 544 TM17NT=TM17YK*(TM17NT<-1>/(TM17YK<-1>))*
02     ((MM17NT/MM17YK)/(MM17NT<-1>/MM17YK<-1>))
C-
F      END IF
S      I='AM17NT'-'AAGONT'+1.0
S      J='AAGONT'+I-1
S      CALL SHRAD4(S(I),C(I),M17NET,ADJ,11,E(J),X(I),J,0)
C ... SM17NT     B.C.+TER.         MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 545 SM17NT=JM17NT+TM17NT
C-
C ... MM17NT     CANADA            MAN-NON-METALLIC MIN.  I/O EMPLOYMENT
E 546 MM17NT=AM17NT+BM17NT+CM17NT+DM17NT+EM17NT+FM17NT+GM17NT+HM17NT+IM17NT+
02     SM17NT
C-
S      IF ((AM18NT<-1> .LT. 0.0001) .OR. (AM18YK<-1> .LT. 0.0001))
F     *THEN
C ... AM18NT     NEWFOUNDLAND      MAN-PETROL+COAL        I/O EMPLOYMENT
E 547 AM18NT=AM18YK*(MM18NT/MM18YK)
C-
F      ELSE
C ... AM18NT     NEWFOUNDLAND      MAN-PETROL+COAL        I/O EMPLOYMENT
E 547 AM18NT=AM18YK*(AM18NT<-1>/(AM18YK<-1>))*
02     ((MM18NT/MM18YK)/(MM18NT<-1>/MM18YK<-1>))
C-
F      END IF
S      IF ((BM18NT<-1> .LT. 0.0001) .OR. (BM18YK<-1> .LT. 0.0001))
F     *THEN
C ... BM18NT     P.E.I.            MAN-PETROL+COAL        I/O EMPLOYMENT
E 548 BM18NT=BM18YK*(MM18NT/MM18YK)
C-
```


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```
F      ELSE
C ... BM18NT    P.E.I.          MAN-PETROL+COAL          I/O EMPLOYMENT
E 548 BM18NT=BM18YK*(BM18NT<-1>/(BM18YK<-1>))*
O2     ((MM18NT/MM18YK)/(MM18NT<-1>/MM18YK<-1>))
C-
F      END IF
C ... CM18NT    NOVA SCOTIA     MAN-PETROL+COAL          I/O EMPLOYMENT
E 549 CM18NT=1000*CM18YK*(1/(B+B*1000*(MM18YK/MM18NT)))
C- B(01)= -19371.26     [  -2.67] B(02)=  3.120106     [   7.44]
C- RB2=0.84 DW=2.41 S.E.E.=  4652.835      AAPE= 12.85
C- 1971-1981
C-
S      IF ((DM18NT<-1> .LT. 0.0001) .OR. (DM18YK<-1> .LT. 0.0001))
F     *THEN
C ... DM18NT    NEW BRUNSWICK   MAN-PETROL+COAL          I/O EMPLOYMENT
E 550 DM18NT=DM18YK*(MM18NT/MM18YK)
C-
F      ELSE
C ... DM18NT    NEW BRUNSWICK   MAN-PETROL+COAL          I/O EMPLOYMENT
E 550 DM18NT=DM18YK*(DM18NT<-1>/(DM18YK<-1>))*
O2     ((MM18NT/MM18YK)/(MM18NT<-1>/MM18YK<-1>))
C-
F      END IF
C ... EM18NT    QUEBEC          MAN-PETROL+COAL          I/O EMPLOYMENT
E 551 EM18NT=1000*EM18YK*(1/(B+B*1000*(MM18YK/MM18NT)))
C- B(01)= -2634.567     [  -0.54] B(02)=  1.667615     [   5.92]
C- RB2=0.77 DW=2.41 S.E.E.=  3122.604      AAPE=  8.67
C- 1971-1981
C-
S      IF ((FM18NT<-1> .LT. 0.0001) .OR. (FM18YK<-1> .LT. 0.0001))
F     *THEN
C ... FM18NT    ONTARIO         MAN-PETROL+COAL          I/O EMPLOYMENT
E 552 FM18NT=FM18YK*(MM18NT/MM18YK)
C-
F      ELSE
C ... FM18NT    ONTARIO         MAN-PETROL+COAL          I/O EMPLOYMENT
E 552 FM18NT=FM18YK*(FM18NT<-1>/(FM18YK<-1>))*
O2     ((MM18NT/MM18YK)/(MM18NT<-1>/MM18YK<-1>))
C-
F      END IF
C ... GM18NT    MANITOBA        MAN-PETROL+COAL          I/O EMPLOYMENT
E 553 GM18NT=1000*GM18YK*(1/(B+B*1000*(MM18YK/MM18NT)))
C- B(01)= -9908.700     [  -1.18] B(02)=  1.475399     [   3.04]
C- RB2=0.45 DW=2.29 S.E.E.=  5378.137      AAPE= 23.16
C- 1971-1981
C-
S      IF ((HM18NT<-1> .LT. 0.0001) .OR. (HM18YK<-1> .LT. 0.0001))
F     *THEN
C ... HM18NT    SASKATCHEWAN    MAN-PETROL+COAL          I/O EMPLOYMENT
E 554 HM18NT=HM18YK*(MM18NT/MM18YK)
C-
F      ELSE
```


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```
C ... HM18NT    SASKATCHEWAN    MAN-PETROL+COAL          I/O EMPLOYMENT
E 554 HM18NT=HM18YK*(HM18NT<-1>/(HM18YK<-1>))*
O2    ((MM18NT/MM18YK)/(MM18NT<-1>/MM18YK<-1>))
C-
F     END IF
C ... IM18NT    ALBERTA         MAN-PETROL+COAL          I/O EMPLOYMENT
E 555 IM18NT=1000*IM18YK*(1/(B+B*1000*(MM18YK/MM18NT)))
C- B(01)= -3080.265    [  -0.56] B(02)=  1.485090    [   4.67]
C- RB2=0.68 DW=1.36 S.E.E.=  3528.695     AAPE= 11.52
C- 1971-1981
C-
C ... JM18NT    B.C.            MAN-PETROL+COAL          I/O EMPLOYMENT
E 556 JM18NT=1000*JM18YK*(1/(B+B*1000*(MM18YK/MM18NT)))
C- B(01)= -2222.746    [  -0.36] B(02)=  1.601382    [   4.44]
C- RB2=0.65 DW=3.03 S.E.E.=  3997.724     AAPE= 12.68
C- 1971-1981
C-
S     IF ((TM18NT<-1> .LT. 0.0001) .OR. (TM18YK<-1> .LT. 0.0001))
F    *THEN
C ... TM18NT    TERRITORIES     MAN-PETROL+COAL          I/O EMPLOYMENT
E 557 TM18NT=TM18YK*(MM18NT/MM18YK)
C-
F     ELSE
C ... TM18NT    TERRITORIES     MAN-PETROL+COAL          I/O EMPLOYMENT
E 557 TM18NT=TM18YK*(TM18NT<-1>/(TM18YK<-1>))*
O2    ((MM18NT/MM18YK)/(MM18NT<-1>/MM18YK<-1>))
C-
F     END IF
S     I='AM18NT'-'AAGONT'+1.0
S     J='AAGONT'+I-1
S     CALL SHRAD4(S(I),C(I),M18NET,ADJ,11,E(J),X(1),J,0)
C ... SM18NT    B.C.+TER.       MAN-PETROL+COAL          I/O EMPLOYMENT
E 558 SM18NT=JM18NT+TM18NT
C-
C ... MM18NT    CANADA          MAN-PETROL+COAL          I/O EMPLOYMENT
E 559 MM18NT=AM18NT+BM18NT+CM18NT+DM18NT+EM18NT+FM18NT+GM18NT+HM18NT+IM18NT+
O2    SM18NT
C-
S     IF ((AMCTNT<-1> .LT. 0.0001) .OR. (AMCTYK<-1> .LT. 0.0001))
F    *THEN
C ... AMCTNT    NEWFOUNDLAND    MAN-CHEMICALS            I/O EMPLOYMENT
E 560 AMCTNT=AMCTYK*(MMCTNT/MMCTYK)
C-
F     ELSE
C ... AMCTNT    NEWFOUNDLAND    MAN-CHEMICALS            I/O EMPLOYMENT
E 560 AMCTNT=AMCTYK*(AMCTNT<-1>/(AMCTYK<-1>))*
O2    ((MMCTNT/MMCTYK)/(MMCTNT<-1>/MMCTYK<-1>))
C-
F     END IF
S     IF ((BMCTNT<-1> .LT. 0.0001) .OR. (BMCTYK<-1> .LT. 0.0001))
F    *THEN
C ... BMCTNT    P.E.I.          MAN-CHEMICALS            I/O EMPLOYMENT
```


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```
E 561 BMCTNT=BMCTYK*(MMCTNT/MMCTYK)
C-
F     ELSE
C ... BMCTNT    P.E.I.          MAN-CHEMICALS          I/O EMPLOYMENT
E 561 BMCTNT=BMCTYK*(BMCTNT<-1>/(BMCTYK<-1>))*
02    ((MMCTNT/MMCTYK)/(MMCTNT<-1>/MMCTYK<-1>))
C-
F     END IF
S     IF ((CMCTNT<-1> .LT. 0.0001) .OR. (CMCTYK<-1> .LT. 0.0001))
F    *THEN
C ... CMCTNT    NOVA SCOTIA     MAN-CHEMICALS          I/O EMPLOYMENT
E 562 CMCTNT=CMCTYK*(MMCTNT/MMCTYK)
C-
F     ELSE
C ... CMCTNT    NOVA SCOTIA     MAN-CHEMICALS          I/O EMPLOYMENT
E 562 CMCTNT=CMCTYK*(CMCTNT<-1>/(CMCTYK<-1>))*
02    ((MMCTNT/MMCTYK)/(MMCTNT<-1>/MMCTYK<-1>))
C-
F     END IF
S     IF ((DMCTNT<-1> .LT. 0.0001) .OR. (DMCTYK<-1> .LT. 0.0001))
F    *THEN
C ... DMCTNT    NEW BRUNSWICK   MAN-CHEMICALS          I/O EMPLOYMENT
E 563 DMCTNT=DMCTYK*(MMCTNT/MMCTYK)
C-
F     ELSE
C ... DMCTNT    NEW BRUNSWICK   MAN-CHEMICALS          I/O EMPLOYMENT
E 563 DMCTNT=DMCTYK*(DMCTNT<-1>/(DMCTYK<-1>))*
02    ((MMCTNT/MMCTYK)/(MMCTNT<-1>/MMCTYK<-1>))
C-
F     END IF
C ... EMCTNT    QUEBEC          MAN-CHEMICALS          I/O EMPLOYMENT
E 564 EMCTNT=1000*EMCTYK*(1/(B+B*1000*(MMCTYK/MMCTNT)))
C- B(01)= -4650.414     [  -4.08] B(02)=  1.164093     [  18.16]
C- RB2=0.97 DW=1.37 S.E.E.=  358.8971     AAPE=  1.73
C- 1971-1981
C-
C ... FMCTNT    ONTARIO         MAN-CHEMICALS          I/O EMPLOYMENT
E 565 FMCTNT=1000*FMCTYK*(1/(B+B*1000*(MMCTYK/MMCTNT)))
C- B(01)=  4427.994     [   5.09] B(02)= 0.7946326     [  16.26]
C- RB2=0.96 DW=1.27 S.E.E.=  273.6558     AAPE=  1.11
C- 1971-1981
C-
S     IF ((GMCTNT<-1> .LT. 0.0001) .OR. (GMCTYK<-1> .LT. 0.0001))
F    *THEN
C ... GMCTNT    MANITOBA        MAN-CHEMICALS          I/O EMPLOYMENT
E 566 GMCTNT=GMCTYK*(MMCTNT/MMCTYK)
C-
F     ELSE
C ... GMCTNT    MANITOBA        MAN-CHEMICALS          I/O EMPLOYMENT
E 566 GMCTNT=GMCTYK*(GMCTNT<-1>/(GMCTYK<-1>))*
02    ((MMCTNT/MMCTYK)/(MMCTNT<-1>/MMCTYK<-1>))
C-
```


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```
F     END IF
C ... HMCTNT    SASKATCHEWAN    MAN-CHEMICALS          I/O EMPLOYMENT
E 567 HMCTNT=1000*HMCTYK*(1/(B+B*1000*(MMCTYK/MMCTNT)))
C- B(01)=  55.24916     [   0.01] B(02)= 0.8515964     [   2.70]
C- RB2=0.39 DW=2.31 S.E.E.=  1763.458     AAPE=  8.33
C- 1971-1981
C-
C ... IMCTNT    ALBERTA         MAN-CHEMICALS          I/O EMPLOYMENT
E 568 IMCTNT=1000*IMCTYK*(1/(B+B*1000*(MMCTYK/MMCTNT)))
C- B(01)=  5503.605     [   0.67] B(02)= 0.9840410     [   2.14]
C- RB2=0.26 DW=1.17 S.E.E.=  2580.398     AAPE=  8.62
C- 1971-1981
C-
C ... JMCTNT    B.C.            MAN-CHEMICALS          I/O EMPLOYMENT
E 569 JMCTNT=1000*JMCTYK*(1/(B+B*1000*(MMCTYK/MMCTNT)))
C- B(01)= -6858.200     [  -0.94] B(02)=  1.519336     [   3.71]
C- RB2=0.56 DW=0.77 S.E.E.=  2291.186     AAPE=  7.85
C- 1971-1981
C-
S     IF ((TMCTNT<-1> .LT. 0.0001) .OR. (TMCTYK<-1> .LT. 0.0001))
F    *THEN
C ... TMCTNT    TERRITORIES     MAN-CHEMICALS          I/O EMPLOYMENT
E 570 TMCTNT=TMCTYK*(MMCTNT/MMCTYK)
C-
F     ELSE
C ... TMCTNT    TERRITORIES     MAN-CHEMICALS          I/O EMPLOYMENT
E 570 TMCTNT=TMCTYK*(TMCTNT<-1>/(TMCTYK<-1>))*
02    ((MMCTNT/MMCTYK)/(MMCTNT<-1>/MMCTYK<-1>))
C-
F     END IF
S     I='AMCTNT'-'AAGONT'+1.0
S     J='AAGONT'+I-1
S     CALL SHRAD4(S(I),C(I),MCTNET,ADJ,11,E(J),X(1),J,0)
C ... SMCTNT    B.C.+TER.       MAN-CHEMICALS          I/O EMPLOYMENT
E 571 SMCTNT=JMCTNT+TMCTNT
C-
C ... MMCTNT    CANADA          MAN-CHEMICALS          I/O EMPLOYMENT
E 572 MMCTNT=AMCTNT+BMCTNT+CMCTNT+DMCTNT+EMCTNT+FMCTNT+GMCTNT+HMCTNT+IMCTNT+
02    SMCTNT
C-
S     IF ((AM2ONT<-1> .LT. 0.0001) .OR. (AM2OYK<-1> .LT. 0.0001))
F    *THEN
C ... AM2ONT    NEWFOUNDLAND    MAN-MISCELLANEOUS      I/O EMPLOYMENT
E 573 AM2ONT=AM2OYK*(MM2ONT/MM2OYK)
C-
F     ELSE
C ... AM2ONT    NEWFOUNDLAND    MAN-MISCELLANEOUS      I/O EMPLOYMENT
E 573 AM2ONT=AM2OYK*(AM2ONT<-1>/(AM2OYK<-1>))*
02    ((MM2ONT/MM2OYK)/(MM2ONT<-1>/MM2OYK<-1>))
C-
F     END IF
S     IF ((BM2ONT<-1> .LT. 0.0001) .OR. (BM2OYK<-1> .LT. 0.0001))
```


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```
F     *THEN
C ... BM2ONT     P.E.I.            MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 574 BM2ONT=BM2OYK*(MM2ONT/MM2OYK)
C-
F      ELSE
C ... BM2ONT     P.E.I.            MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 574 BM2ONT=BM2OYK*(BM2ONT<-1>/(BM2OYK<-1>))*
02     ((MM2ONT/MM2OYK)/(MM2ONT<-1>/MM2OYK<-1>))
C-
F      END IF
S      IF ((CM2ONT<-1> .LT. 0.0001) .OR. (CM2OYK<-1> .LT. 0.0001))
F     *THEN
C ... CM2ONT     NOVA SCOTIA       MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 575 CM2ONT=CM2OYK*(MM2ONT/MM2OYK)
C-
F      ELSE
C ... CM2ONT     NOVA SCOTIA       MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 575 CM2ONT=CM2OYK*(CM2ONT<-1>/(CM2OYK<-1>))*
02     ((MM2ONT/MM2OYK)/(MM2ONT<-1>/MM2OYK<-1>))
C-
F      END IF
S      IF ((DM2ONT<-1> .LT. 0.0001) .OR. (DM2OYK<-1> .LT. 0.0001))
F     *THEN
C ... DM2ONT     NEW BRUNSWICK     MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 576 DM2ONT=DM2OYK*(MM2ONT/MM2OYK)
C-
F      ELSE
C ... DM2ONT     NEW BRUNSWICK     MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 576 DM2ONT=DM2OYK*(DM2ONT<-1>/(DM2OYK<-1>))*
02     ((MM2ONT/MM2OYK)/(MM2ONT<-1>/MM2OYK<-1>))
C-
F      END IF
C ... EM2ONT     QUEBEC            MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 577 EM2ONT=1000*EM2OYK*(1/(B+B*1000*(MM2OYK/MM2ONT)))
C- B(01)=  479.1406     [   0.31] B(02)= 0.7852443     [   5.16]
C- RB2=0.72 DW=2.27 S.E.E.=  268.1054      AAPE=  1.90
C- 1971-1981
C-
C ... FM2ONT     ONTARIO           MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 578 FM2ONT=1000*FM2OYK*(1/(B+B*1000*(MM2OYK/MM2ONT)))
C- B(01)= -2083.373     [  -2.81] B(02)=  1.323721     [  18.20]
C- RB2=0.97 DW=2.36 S.E.E.=  128.0952      AAPE=  0.74
C- 1971-1981
C-
S      IF ((GM2ONT<-1> .LT. 0.0001) .OR. (GM2OYK<-1> .LT. 0.0001))
F     *THEN
C ... GM2ONT     MANITOBA          MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 579 GM2ONT=GM2OYK*(MM2ONT/MM2OYK)
C-
F      ELSE
C ... GM2ONT     MANITOBA          MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 579 GM2ONT=GM2OYK*(GM2ONT<-1>/(GM2OYK<-1>))*
```


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```
O2     ((MM2ONT/MM2OYK)/(MM2ONT<-1>/MM2OYK<-1>))
C-
F      END IF
S      IF ((HM2ONT<-1> .LT. 0.0001) .OR. (HM2OYK<-1> .LT. 0.0001))
F     *THEN
C ... HM2ONT    SASKATCHEWAN    MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 580 HM2ONT=HM2OYK*(MM2ONT/MM2OYK)
C-
F      ELSE
C ... HM2ONT    SASKATCHEWAN    MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 580 HM2ONT=HM2OYK*(HM2ONT<-1>/(HM2OYK<-1>))*
O2     ((MM2ONT/MM2OYK)/(MM2ONT<-1>/MM2OYK<-1>))
C-
F      END IF
S      IF ((IM2ONT<-1> .LT. 0.0001) .OR. (IM2OYK<-1> .LT. 0.0001))
F     *THEN
C ... IM2ONT    ALBERTA         MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 581 IM2ONT=IM2OYK*(MM2ONT/MM2OYK)
C-
F      ELSE
C ... IM2ONT    ALBERTA         MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 581 IM2ONT=IM2OYK*(IM2ONT<-1>/(IM2OYK<-1>))*
O2     ((MM2ONT/MM2OYK)/(MM2ONT<-1>/MM2OYK<-1>))
C-
F      END IF
S      IF ((JM2ONT<-1> .LT. 0.0001) .OR. (JM2OYK<-1> .LT. 0.0001))
F     *THEN
C ... JM2ONT    B.C.            MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 582 JM2ONT=JM2OYK*(MM2ONT/MM2OYK)
C-
F      ELSE
C ... JM2ONT    B.C.            MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 582 JM2ONT=JM2OYK*(JM2ONT<-1>/(JM2OYK<-1>))*
O2     ((MM2ONT/MM2OYK)/(MM2ONT<-1>/MM2OYK<-1>))
C-
F      END IF
S      IF ((TM2ONT<-1> .LT. 0.0001) .OR. (TM2OYK<-1> .LT. 0.0001))
F     *THEN
C ... TM2ONT    TERRITORIES     MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 583 TM2ONT=TM2OYK*(MM2ONT/MM2OYK)
C-
F      ELSE
C ... TM2ONT    TERRITORIES     MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 583 TM2ONT=TM2OYK*(TM2ONT<-1>/(TM2OYK<-1>))*
O2     ((MM2ONT/MM2OYK)/(MM2ONT<-1>/MM2OYK<-1>))
C-
F      END IF
S      I='AM2ONT'-'AAGONT'+1.0
S      J='AAGONT'+I-1
S      CALL SHRAD4(S(I),C(I),M2ONET,ADJ,11,E(J),X(I),J,0)
C ... SM2ONT    B.C.+TER.       MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 584 SM2ONT=JM2ONT+TM2ONT
```

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```
C-
C ... MM2ONT    CANADA          MAN-MISCELLANEOUS       I/O EMPLOYMENT
E 585 MM2ONT=AM2ONT+BM2ONT+CM2ONT+DM2ONT+EM2ONT+FM2ONT+GM2ONT+HM2ONT+IM2ONT+
O2    SM2ONT
C-
S     IF ((ACONNT<-1> .LT. 0.0001) .OR. (ACONYK<-1> .LT. 0.0001))
F    *THEN
C ... ACONNT    NEWFOUNDLAND    CONSTRUCTION            I/O EMPLOYMENT
E 586 ACONNT=ACONYK*(MCONNT/MCONYK)
C-
F     ELSE
C ... ACONNT    NEWFOUNDLAND    CONSTRUCTION            I/O EMPLOYMENT
E 586 ACONNT=ACONYK*(ACONNT<-1>/(ACONYK<-1>))*
O2    ((MCONNT/MCONYK)/(MCONNT<-1>/MCONYK<-1>))
C-
F     END IF
S     IF ((BCONNT<-1> .LT. 0.0001) .OR. (BCONYK<-1> .LT. 0.0001))
F    *THEN
C ... BCONNT    P.E.I.          CONSTRUCTION            I/O EMPLOYMENT
E 587 BCONNT=BCONYK*(MCONNT/MCONYK)
C-
F     ELSE
C ... BCONNT    P.E.I.          CONSTRUCTION            I/O EMPLOYMENT
E 587 BCONNT=BCONYK*(BCONNT<-1>/(BCONYK<-1>))*
O2    ((MCONNT/MCONYK)/(MCONNT<-1>/MCONYK<-1>))
C-
F     END IF
S     IF ((CCONNT<-1> .LT. 0.0001) .OR. (CCONYK<-1> .LT. 0.0001))
F    *THEN
C ... CCONNT    NOVA SCOTIA     CONSTRUCTION            I/O EMPLOYMENT
E 588 CCONNT=CCONYK*(MCONNT/MCONYK)
C-
F     ELSE
C ... CCONNT    NOVA SCOTIA     CONSTRUCTION            I/O EMPLOYMENT
E 588 CCONNT=CCONYK*(CCONNT<-1>/(CCONYK<-1>))*
O2    ((MCONNT/MCONYK)/(MCONNT<-1>/MCONYK<-1>))
C-
F     END IF
S     IF ((DCONNT<-1> .LT. 0.0001) .OR. (DCONYK<-1> .LT. 0.0001))
F    *THEN
C ... DCONNT    NEW BRUNSWICK   CONSTRUCTION            I/O EMPLOYMENT
E 589 DCONNT=DCONYK*(MCONNT/MCONYK)
C-
F     ELSE
C ... DCONNT    NEW BRUNSWICK   CONSTRUCTION            I/O EMPLOYMENT
E 589 DCONNT=DCONYK*(DCONNT<-1>/(DCONYK<-1>))*
O2    ((MCONNT/MCONYK)/(MCONNT<-1>/MCONYK<-1>))
C-
F     END IF
S     IF ((ECONNT<-1> .LT. 0.0001) .OR. (ECONYK<-1> .LT. 0.0001))
F    *THEN
C ... ECONNT    QUEBEC          CONSTRUCTION            I/O EMPLOYMENT
```

```
E 590 ECONNT=ECONYK*(MCONNT/MCONYK)
C-
F     ELSE
C ... ECONNT    QUEBEC          CONSTRUCTION          I/O EMPLOYMENT
E 590 ECONNT=ECONYK*(ECONNT<-1>/(ECONYK<-1>))*
02    ((MCONNT/MCONYK)/(MCONNT<-1>/MCONYK<-1>))
C-
F     END IF
S     IF ((FCONNT<-1> .LT. 0.0001) .OR. (FCONYK<-1> .LT. 0.0001))
F    *THEN
C ... FCONNT    ONTARIO         CONSTRUCTION          I/O EMPLOYMENT
E 591 FCONNT=FCONYK*(MCONNT/MCONYK)
C-
F     ELSE
C ... FCONNT    ONTARIO         CONSTRUCTION          I/O EMPLOYMENT
E 591 FCONNT=FCONYK*(FCONNT<-1>/(FCONYK<-1>))*
02    ((MCONNT/MCONYK)/(MCONNT<-1>/MCONYK<-1>))
C-
F     END IF
S     IF ((GCONNT<-1> .LT. 0.0001) .OR. (GCONYK<-1> .LT. 0.0001))
F    *THEN
C ... GCONNT    MANITOBA        CONSTRUCTION          I/O EMPLOYMENT
E 592 GCONNT=GCONYK*(MCONNT/MCONYK)
C-
F     ELSE
C ... GCONNT    MANITOBA        CONSTRUCTION          I/O EMPLOYMENT
E 592 GCONNT=GCONYK*(GCONNT<-1>/(GCONYK<-1>))*
02    ((MCONNT/MCONYK)/(MCONNT<-1>/MCONYK<-1>))
C-
F     END IF
S     IF ((HCONNT<-1> .LT. 0.0001) .OR. (HCONYK<-1> .LT. 0.0001))
F    *THEN
C ... HCONNT    SASKATCHEWAN    CONSTRUCTION          I/O EMPLOYMENT
E 593 HCONNT=HCONYK*(MCONNT/MCONYK)
C-
F     ELSE
C ... HCONNT    SASKATCHEWAN    CONSTRUCTION          I/O EMPLOYMENT
E 593 HCONNT=HCONYK*(HCONNT<-1>/(HCONYK<-1>))*
02    ((MCONNT/MCONYK)/(MCONNT<-1>/MCONYK<-1>))
C-
F     END IF
S     IF ((ICONNT<-1> .LT. 0.0001) .OR. (ICONYK<-1> .LT. 0.0001))
F    *THEN
C ... ICONNT    ALBERTA         CONSTRUCTION          I/O EMPLOYMENT
E 594 ICONNT=ICONYK*(MCONNT/MCONYK)
C-
F     ELSE
C ... ICONNT    ALBERTA         CONSTRUCTION          I/O EMPLOYMENT
E 594 ICONNT=ICONYK*(ICONNT<-1>/(ICONYK<-1>))*
02    ((MCONNT/MCONYK)/(MCONNT<-1>/MCONYK<-1>))
C-
F     END IF
```


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S      IF ((JCONNT<-1> .LT. 0.0001) .OR. (JCONYK<-1> .LT. 0.0001))
F     *THEN
C ... JCONNT     B.C.              CONSTRUCTION            I/O EMPLOYMENT
E 595 JCONNT=JCONYK*(MCONNT/MCONYK)
C-
F      ELSE
C ... JCONNT     B.C.              CONSTRUCTION            I/O EMPLOYMENT
E 595 JCONNT=JCONYK*(JCONNT<-1>/(JCONYK<-1>))*
02     ((MCONNT/MCONYK)/(MCONNT<-1>/MCONYK<-1>))
C-
F      END IF
S      IF ((TCONNT<-1> .LT. 0.0001) .OR. (TCONYK<-1> .LT. 0.0001))
F     *THEN
C ... TCONNT     TERRITORIES       CONSTRUCTION            I/O EMPLOYMENT
E 596 TCONNT=TCONYK*(MCONNT/MCONYK)
C-
F      ELSE
C ... TCONNT     TERRITORIES       CONSTRUCTION            I/O EMPLOYMENT
E 596 TCONNT=TCONYK*(TCONNT<-1>/(TCONYK<-1>))*
02     ((MCONNT/MCONYK)/(MCONNT<-1>/MCONYK<-1>))
C-
F      END IF
S      I='ACONNT'-'AAGONT'+1.0
S      J='AAGONT'+I-1
S      CALL SHRAD4(S(I),C(I),CONNET,ADJ,11,E(J),X(I),J,0)
C ... SCONNT     B.C.+TER.         CONSTRUCTION            I/O EMPLOYMENT
E 597 SCONNT=JCONNT+TCONNT
C-
C ... MCONNT     CANADA            CONSTRUCTION            I/O EMPLOYMENT
E 598 MCONNT=ACONNT+BCONNT+CCONNT+DCONNT+ECONNT+FCONNT+GCONNT+HCONNT+ICONNT+
02     SCONNT
C-
F1000 CONTINUE


C.2  TERTIARY EMPLOYMENT BY PROVINCE

B  37 I/O EMPLOYMENT TERTIARY
O ON
O NOXREF,NOSUM
S      IF(XCTL37.NE.1.0) GO TO 1000
O CON
O XREF
C ... ATTANT     NEWFOUNDLAND      AIR TRANS.              I/O EMPLOYMENT
E  53 ATTANT=1000*ATTAYK*(1/(B+B*1000*(MTTAYK/MTTANT)))
C- B(01)=  1596.778     [   0.19] B(02)=  1.420035     [   4.60]
C- RB2=0.67 DW=1.92 S.E.E.=  4953.970      AAPE=  9.41
C- 1971-1981
C-
S      IF ((BTTANT<-1> .LT. 0.0001) .OR. (BTTAYK<-1> .LT. 0.0001))
F     *THEN
C ... BTTANT     P.E.I.            AIR TRANS.              I/O EMPLOYMENT
```


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```
E  54 BTTANT=BTTAYK*(MTTANT/MTTAYK)
C-
F     ELSE
C ... BTTANT    P.E.I.          AIR TRANS.              I/O EMPLOYMENT
E  54 BTTANT=BTTAYK*(BTTANT<-1>/(BTTAYK<-1>))*
O2    ((MTTANT/MTTAYK)/(MTTANT<-1>/MTTAYK<-1>))
C-
F     END IF
S     IF ((CTTANT<-1> .LT. 0.0001) .OR. (CTTAYK<-1> .LT. 0.0001))
F    *THEN
C ... CTTANT    NOVA SCOTIA     AIR TRANS.              I/O EMPLOYMENT
E  55 CTTANT=CTTAYK*(MTTANT/MTTAYK)
C-
F     ELSE
C ... CTTANT    NOVA SCOTIA     AIR TRANS.              I/O EMPLOYMENT
E  55 CTTANT=CTTAYK*(CTTANT<-1>/(CTTAYK<-1>))*
O2    ((MTTANT/MTTAYK)/(MTTANT<-1>/MTTAYK<-1>))
C-
F     END IF
C ... DTTANT    NEW BRUNSWICK   AIR TRANS.              I/O EMPLOYMENT
E  56 DTTANT=1000*DTTAYK*(1/(B+B*1000*(MTTAYK/MTTANT)))
C- B(01)= -44619.26     [  -1.34] B(02)=  4.563598     [   3.80]
C- RB2=0.57 DW=1.80 S.E.E.=  19283.95     AAPE= 14.32
C- 1971-1981
C-
C ... ETTANT    QUEBEC          AIR TRANS.              I/O EMPLOYMENT
E  57 ETTANT=1000*ETTAYK*(1/(B+B*1000*(MTTAYK/MTTANT)))
C- B(01)= -1394.663     [  -1.14] B(02)= 0.5505785     [  12.52]
C- RB2=0.94 DW=1.39 S.E.E.=  705.5266     AAPE=  3.55
C- 1971-1981
C-
S     IF ((FTTANT<-1> .LT. 0.0001) .OR. (FTTAYK<-1> .LT. 0.0001))
F    *THEN
C ... FTTANT    ONTARIO         AIR TRANS.              I/O EMPLOYMENT
E  58 FTTANT=FTTAYK*(MTTANT/MTTAYK)
C-
F     ELSE
C ... FTTANT    ONTARIO         AIR TRANS.              I/O EMPLOYMENT
E  58 FTTANT=FTTAYK*(FTTANT<-1>/(FTTAYK<-1>))*
O2    ((MTTANT/MTTAYK)/(MTTANT<-1>/MTTAYK<-1>))
C-
F     END IF
C ... GTTANT    MANITOBA        AIR TRANS.              I/O EMPLOYMENT
E  59 GTTANT=1000*GTTAYK*(1/(B+B*1000*(MTTAYK/MTTANT)))
C- B(01)=  5169.832     [   2.53] B(02)= 0.5274306     [   7.17]
C- RB2=0.83 DW=2.28 S.E.E.=  1180.520     AAPE=  4.10
C- 1971-1981
C-
S     IF ((HTTANT<-1> .LT. 0.0001) .OR. (HTTAYK<-1> .LT. 0.0001))
F    *THEN
C ... HTTANT    SASKATCHEWAN    AIR TRANS.              I/O EMPLOYMENT
E  60 HTTANT=HTTAYK*(MTTANT/MTTAYK)
```


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PROVINCIAL ESTIMATION RESULTS
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```
C-
F     ELSE
C ... HTTANT    SASKATCHEWAN    AIR TRANS.              I/O EMPLOYMENT
E  60 HTTANT=HTTAYK*(HTTANT<-1>/(HTTAYK<-1>))*
02    ((MTTANT/MTTAYK)/(MTTANT<-1>/MTTAYK<-1>))
C-
F     END IF
C ... ITTANT    ALBERTA         AIR TRANS.              I/O EMPLOYMENT
E  61 ITTANT=1000*ITTAYK*(1/(B+B*1000*(MTTAYK/MTTANT)))
C- B(01)= -27552.30    [  -3.29] B(02)=  3.269582    [  10.84]
C- RB2=0.92 DW=0.96 S.E.E.=  4838.959     AAPE=  6.04
C- 1971-1981
C-
C ... JTTANT    B.C.            AIR TRANS.              I/O EMPLOYMENT
E  62 JTTANT=1000*JTTAYK*(1/(B+B*1000*(MTTAYK/MTTANT)))
C- B(01)= -5426.793    [  -2.71] B(02)= 0.9849895    [  13.65]
C- RB2=0.95 DW=1.13 S.E.E.=  1157.771     AAPE=  4.68
C- 1971-1981
C-
C ... TTTANT    TERRITORIES     AIR TRANS.              I/O EMPLOYMENT
E  63 TTTANT=1000*TTTAYK*(1/(B+B*1000*(MTTAYK/MTTANT)))
C- B(01)=  12289.88    [   0.24] B(02)=  8.487512    [   4.66]
C- RB2=0.67 DW=1.15 S.E.E.=  29198.63     AAPE=  9.09
C- 1971-1981
C-
S     I='ATTANT'-'ATSPNT'+1.0
S     J='ATSPNT'+I-1
S     CALL SHRAD4(S(I),C(I),TTANET,ADJ,11,E(J),X(1),J,0)
C ... STTANT    B.C.+TER.       AIR TRANS.              I/O EMPLOYMENT
E  64 STTANT=JTTANT+TTTANT
C-
C ... MTTANT    CANADA          AIR TRANS.              I/O EMPLOYMENT
E  65 MTTANT=ATTANT+BTTANT+CTTANT+DTTANT+ETTANT+FTTANT+GTTANT+HTTANT+ITTANT+
02    STTANT
C-
C ... ATTRNT    NEWFOUNDLAND    RAILWAY TRANS.          I/O EMPLOYMENT
E  66 ATTRNT=1000*ATTRYK*(1/(B+B*1000*(MTTRYK/MTTRNT)))
C- B(01)= -1602.231    [  -0.95] B(02)= 0.8160031    [   7.89]
C- RB2=0.86 DW=1.46 S.E.E.=  563.6965     AAPE=  3.47
C- 1971-1981
C-
S     IF ((BTTRNT<-1> .LT. 0.0001) .OR. (BTTRYK<-1> .LT. 0.0001))
F    *THEN
C ... BTTRNT    P.E.I.          RAILWAY TRANS.          I/O EMPLOYMENT
E  67 BTTRNT=BTTRYK*(MTTRNT/MTTRYK)
C-
F     ELSE
C ... BTTRNT    P.E.I.          RAILWAY TRANS.          I/O EMPLOYMENT
E  67 BTTRNT=BTTRYK*(BTTRNT<-1>/(BTTRYK<-1>))*
02    ((MTTRNT/MTTRYK)/(MTTRNT<-1>/MTTRYK<-1>))
C-
F     END IF
```


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```
S      IF ((CTTRNT<-1> .LT. 0.0001) .OR. (CTTRYK<-1> .LT. 0.0001))
F     *THEN
C ...  CTTRNT     NOVA SCOTIA      RAILWAY TRANS.          I/O EMPLOYMENT
E   68 CTTRNT=CTTRYK*(MTTRNT/MTTRYK)
C-
F      ELSE
C ...  CTTRNT     NOVA SCOTIA      RAILWAY TRANS.          I/O EMPLOYMENT
E   68 CTTRNT=CTTRYK*(CTTRNT<-1>/(CTTRYK<-1>))*
02     ((MTTRNT/MTTRYK)/(MTTRNT<-1>/MTTRYK<-1>))
C-
F      END IF
S      IF ((DTTRNT<-1> .LT. 0.0001) .OR. (DTTRYK<-1> .LT. 0.0001))
F     *THEN
C ...  DTTRNT     NEW BRUNSWICK    RAILWAY TRANS.          I/O EMPLOYMENT
E   69 DTTRNT=DTTRYK*(MTTRNT/MTTRYK)
C-
F      ELSE
C ...  DTTRNT     NEW BRUNSWICK    RAILWAY TRANS.          I/O EMPLOYMENT
E   69 DTTRNT=DTTRYK*(DTTRNT<-1>/(DTTRYK<-1>))*
02     ((MTTRNT/MTTRYK)/(MTTRNT<-1>/MTTRYK<-1>))
C-
F      END IF
C ...  ETTRNT     QUEBEC           RAILWAY TRANS.          I/O EMPLOYMENT
E   70 ETTRNT=1000*ETTRYK*(1/(B+B*1000*(MTTRYK/MTTRNT)))
C- B(01)= -632.2741     [  -0.20] B(02)=  1.013770     [   5.23]
C- RB2=0.72 DW=2.76 S.E.E.=  1055.938     AAPE=  5.24
C- 1971-1981
C-
S      IF ((FTTRNT<-1> .LT. 0.0001) .OR. (FTTRYK<-1> .LT. 0.0001))
F     *THEN
C ...  FTTRNT     ONTARIO          RAILWAY TRANS.          I/O EMPLOYMENT
E   71 FTTRNT=FTTRYK*(MTTRNT/MTTRYK)
C-
F      ELSE
C ...  FTTRNT     ONTARIO          RAILWAY TRANS.          I/O EMPLOYMENT
E   71 FTTRNT=FTTRYK*(FTTRNT<-1>/(FTTRYK<-1>))*
02     ((MTTRNT/MTTRYK)/(MTTRNT<-1>/MTTRYK<-1>))
C-
F      END IF
S      IF ((GTTRNT<-1> .LT. 0.0001) .OR. (GTTRYK<-1> .LT. 0.0001))
F     *THEN
C ...  GTTRNT     MANITOBA         RAILWAY TRANS.          I/O EMPLOYMENT
E   72 GTTRNT=GTTRYK*(MTTRNT/MTTRYK)
C-
F      ELSE
C ...  GTTRNT     MANITOBA         RAILWAY TRANS.          I/O EMPLOYMENT
E   72 GTTRNT=GTTRYK*(GTTRNT<-1>/(GTTRYK<-1>))*
02     ((MTTRNT/MTTRYK)/(MTTRNT<-1>/MTTRYK<-1>))
C-
F      END IF
C ...  HTTRNT     SASKATCHEWAN     RAILWAY TRANS.          I/O EMPLOYMENT
E   73 HTTRNT=1000*HTTRYK*(1/(B+B*1000*(MTTRYK/MTTRNT)))
```


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```
C- B(01)=  3221.636     [   0.61] B(02)=  1.228713     [   3.80]
C- RB2=0.57 DW=1.67 S.E.E.=  1760.414      AAPE=  5.64
C- 1971-1981
C-
C ... ITTRNT    ALBERTA          RAILWAY TRANS.          I/O EMPLOYMENT
E  74 ITTRNT=1000*ITTRYK*(1/(B+B*1000*(MTTRYK/MTTRNT)))
C- B(01)= -194.4665     [  -0.06] B(02)= 0.9215721     [   4.29]
C- RB2=0.63 DW=1.63 S.E.E.=  1170.442      AAPE=  5.70
C- 1971-1981
C-
S     IF ((JTTRNT<-1> .LT. 0.0001) .OR. (JTTRYK<-1> .LT. 0.0001))
F    *THEN
C ... JTTRNT    B.C.             RAILWAY TRANS.          I/O EMPLOYMENT
E  75 JTTRNT=JTTRYK*(MTTRNT/MTTRYK)
C-
F     ELSE
C ... JTTRNT    B.C.             RAILWAY TRANS.          I/O EMPLOYMENT
E  75 JTTRNT=JTTRYK*(JTTRNT<-1>/(JTTRYK<-1>))*
02     ((MTTRNT/MTTRYK)/(MTTRNT<-1>/MTTRYK<-1>))
C-
F     END IF
S     IF ((TTTRNT<-1> .LT. 0.0001) .OR. (TTTRYK<-1> .LT. 0.0001))
F    *THEN
C ... TTTRNT    TERRITORIES      RAILWAY TRANS.          I/O EMPLOYMENT
E  76 TTTRNT=TTTRYK*(MTTRNT/MTTRYK)
C-
F     ELSE
C ... TTTRNT    TERRITORIES      RAILWAY TRANS.          I/O EMPLOYMENT
E  76 TTTRNT=TTTRYK*(TTTRNT<-1>/(TTTRYK<-1>))*
02     ((MTTRNT/MTTRYK)/(MTTRNT<-1>/MTTRYK<-1>))
C-
F     END IF
S     I='ATTRNT'-'ATSPNT'+1.0
S     J='ATSPNT'+I-1
S     CALL SHRAD4(S(I),C(I),TTRNET,ADJ,11,E(J),X(1),J,0)
C ... STTRNT    B.C.+TER.        RAILWAY TRANS.          I/O EMPLOYMENT
E  77 STTRNT=JTTRNT+TTTRNT
C-
C ... MTTRNT    CANADA           RAILWAY TRANS.          I/O EMPLOYMENT
E  78 MTTRNT=ATTRNT+BTTRNT+CTTRNT+DTTRNT+ETTRNT+FTTRNT+GTTRNT+HTTRNT+ITTRNT+
02     STTRNT
C-
S     IF ((ATTPNT<-1> .LT. 0.0001) .OR. (ATTPYK<-1> .LT. 0.0001))
F    *THEN
C ... ATTPNT    NEWFOUNDLAND     PIPELINE TRANS.         I/O EMPLOYMENT
E  79 ATTPNT=ATTPYK*(MTTPNT/MTTPYK)
C-
F     ELSE
C ... ATTPNT    NEWFOUNDLAND     PIPELINE TRANS.         I/O EMPLOYMENT
E  79 ATTPNT=ATTPYK*(ATTPNT<-1>/(ATTPYK<-1>))*
02     ((MTTPNT/MTTPYK)/(MTTPNT<-1>/MTTPYK<-1>))
C-
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```
F      END IF
S      IF ((BTTPNT<-1> .LT. 0.0001) .OR. (BTTPYK<-1> .LT. 0.0001))
F     *THEN
C ... BTTPNT    P.E.I.          PIPELINE TRANS.        I/O EMPLOYMENT
E  80 BTTPNT=BTTPYK*(MTTPNT/MTTPYK)
C-
F      ELSE
C ... BTTPNT    P.E.I.          PIPELINE TRANS.        I/O EMPLOYMENT
E  80 BTTPNT=BTTPYK*(BTTPNT<-1>/(BTTPYK<-1>))*
O2     ((MTTPNT/MTTPYK)/(MTTPNT<-1>/MTTPYK<-1>))
C-
F      END IF
S      IF ((CTTPNT<-1> .LT. 0.0001) .OR. (CTTPYK<-1> .LT. 0.0001))
F     *THEN
C ... CTTPNT    NOVA SCOTIA     PIPELINE TRANS.        I/O EMPLOYMENT
E  81 CTTPNT=CTTPYK*(MTTPNT/MTTPYK)
C-
F      ELSE
C ... CTTPNT    NOVA SCOTIA     PIPELINE TRANS.        I/O EMPLOYMENT
E  81 CTTPNT=CTTPYK*(CTTPNT<-1>/(CTTPYK<-1>))*
O2     ((MTTPNT/MTTPYK)/(MTTPNT<-1>/MTTPYK<-1>))
C-
F      END IF
S      IF ((DTTPNT<-1> .LT. 0.0001) .OR. (DTTPYK<-1> .LT. 0.0001))
F     *THEN
C ... DTTPNT    NEW BRUNSWICK   PIPELINE TRANS.        I/O EMPLOYMENT
E  82 DTTPNT=DTTPYK*(MTTPNT/MTTPYK)
C-
F      ELSE
C ... DTTPNT    NEW BRUNSWICK   PIPELINE TRANS.        I/O EMPLOYMENT
E  82 DTTPNT=DTTPYK*(DTTPNT<-1>/(DTTPYK<-1>))*
O2     ((MTTPNT/MTTPYK)/(MTTPNT<-1>/MTTPYK<-1>))
C-
F      END IF
S      IF ((ETTPNT<-1> .LT. 0.0001) .OR. (ETTPYK<-1> .LT. 0.0001))
F     *THEN
C ... ETTPNT    QUEBEC          PIPELINE TRANS.        I/O EMPLOYMENT
E  83 ETTPNT=ETTPYK*(MTTPNT/MTTPYK)
C-
F      ELSE
C ... ETTPNT    QUEBEC          PIPELINE TRANS.        I/O EMPLOYMENT
E  83 ETTPNT=ETTPYK*(ETTPNT<-1>/(ETTPYK<-1>))*
O2     ((MTTPNT/MTTPYK)/(MTTPNT<-1>/MTTPYK<-1>))
C-
F      END IF
C ... FTTPNT    ONTARIO         PIPELINE TRANS.        I/O EMPLOYMENT
E  84 FTTPNT=1000*FTTPYK*(1/(B+B*1000*(MTTPYK/MTTPNT)))
C- B(01)=  24122.36     [   2.94] B(02)= 0.6006888     [   7.68]
C- RB2=0.85 DW=2.00 S.E.E.=  4511.854      AAPE=  4.29
C- 1971-1981
C-
S      IF ((GTTPNT<-1> .LT. 0.0001) .OR. (GTTPYK<-1> .LT. 0.0001))
```

```
F     *THEN
C ... GTTPNT     MANITOBA          PIPELINE TRANS.          I/O EMPLOYMENT
E  85 GTTPNT=GTTPYK*(MTTPNT/MTTPYK)
C-
F     ELSE
C ... GTTPNT     MANITOBA          PIPELINE TRANS.          I/O EMPLOYMENT
E  85 GTTPNT=GTTPYK*(GTTPNT<-1>/(GTTPYK<-1>))*
O2     ((MTTPNT/MTTPYK)/(MTTPNT<-1>/MTTPYK<-1>))
C-
F     END IF
C ... HTTPNT     SASKATCHEWAN      PIPELINE TRANS.          I/O EMPLOYMENT
E  86 HTTPNT=1000*HTTPYK*(1/(B+B*1000*(MTTPYK/MTTPNT)))
C- B(01)= -11499.47     [  -0.26] B(02)=  2.019352     [   4.74]
C- RB2=0.68 DW=1.09 S.E.E.=  24567.51     AAPE=  9.93
C- 1971-1981
C-
C ... ITTPNT     ALBERTA           PIPELINE TRANS.          I/O EMPLOYMENT
E  87 ITTPNT=1000*ITTPYK*(1/(B+B*1000*(MTTPYK/MTTPNT)))
C- B(01)= -13649.04     [  -2.46] B(02)= 0.9120234     [  17.30]
C- RB2=0.97 DW=1.00 S.E.E.=  3042.415     AAPE=  2.91
C- 1971-1981
C-
C ... JTTPNT     B.C.              PIPELINE TRANS.          I/O EMPLOYMENT
E  88 JTTPNT=1000*JTTPYK*(1/(B+B*1000*(MTTPYK/MTTPNT)))
C- B(01)= -21123.86     [  -1.23] B(02)= 0.8415632     [   5.16]
C- RB2=0.72 DW=0.46 S.E.E.=  9410.604     AAPE= 10.00
C- 1971-1981
C-
S     IF ((TTTPNT<-1> .LT. 0.0001) .OR. (TTTPYK<-1> .LT. 0.0001))
F    *THEN
C ... TTTPNT     TERRITORIES       PIPELINE TRANS.          I/O EMPLOYMENT
E  89 TTTPNT=TTTPYK*(MTTPNT/MTTPYK)
C-
F     ELSE
C ... TTTPNT     TERRITORIES       PIPELINE TRANS.          I/O EMPLOYMENT
E  89 TTTPNT=TTTPYK*(TTTPNT<-1>/(TTTPYK<-1>))*
O2     ((MTTPNT/MTTPYK)/(MTTPNT<-1>/MTTPYK<-1>))
C-
F     END IF
S     I='ATTPNT'-'ATSPNT'+1.0
S     J='ATSPNT'+I-1
S     CALL SHRAD4(S(I),C(I),TTPNET,ADJ,11,E(J),X(1),J,0)
C ... STTPNT     B.C.+TER.         PIPELINE TRANS.          I/O EMPLOYMENT
E  90 STTPNT=JTTPNT+TTTPNT
C-
C ... MTTPNT     CANADA            PIPELINE TRANS.          I/O EMPLOYMENT
E  91 MTTPNT=ATTPNT+BTTPNT+CTTPNT+DTTPNT+ETTPNT+FTTPNT+GTTPNT+HTTPNT+ITTPNT+
O2     STTPNT
C-
S     IF ((ATTUNT<-1> .LT. 0.0001) .OR. (ATTUYK<-1> .LT. 0.0001))
F    *THEN
C ... ATTUNT     NEWFOUNDLAND      URBAN TRANS.             I/O EMPLOYMENT
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```
E  92 ATTUNT=ATTUYK*(MTTUNT/MTTUYK)
C-
F     ELSE
C ... ATTUNT    NEWFOUNDLAND    URBAN TRANS.          I/O EMPLOYMENT
E  92 ATTUNT=ATTUYK*(ATTUNT<-1>/(ATTUYK<-1>))*
02    ((MTTUNT/MTTUYK)/(MTTUNT<-1>/MTTUYK<-1>))
C-
F     END IF
S     IF ((BTTUNT<-1> .LT. 0.0001) .OR. (BTTUYK<-1> .LT. 0.0001))
F    *THEN
C ... BTTUNT    P.E.I.          URBAN TRANS.          I/O EMPLOYMENT
E  93 BTTUNT=BTTUYK*(MTTUNT/MTTUYK)
C-
F     ELSE
C ... BTTUNT    P.E.I.          URBAN TRANS.          I/O EMPLOYMENT
E  93 BTTUNT=BTTUYK*(BTTUNT<-1>/(BTTUYK<-1>))*
02    ((MTTUNT/MTTUYK)/(MTTUNT<-1>/MTTUYK<-1>))
C-
F     END IF
S     IF ((CTTUNT<-1> .LT. 0.0001) .OR. (CTTUYK<-1> .LT. 0.0001))
F    *THEN
C ... CTTUNT    NOVA SCOTIA     URBAN TRANS.          I/O EMPLOYMENT
E  94 CTTUNT=CTTUYK*(MTTUNT/MTTUYK)
C-
F     ELSE
C ... CTTUNT    NOVA SCOTIA     URBAN TRANS.          I/O EMPLOYMENT
E  94 CTTUNT=CTTUYK*(CTTUNT<-1>/(CTTUYK<-1>))*
02    ((MTTUNT/MTTUYK)/(MTTUNT<-1>/MTTUYK<-1>))
C-
F     END IF
S     IF ((DTTUNT<-1> .LT. 0.0001) .OR. (DTTUYK<-1> .LT. 0.0001))
F    *THEN
C ... DTTUNT    NEW BRUNSWICK   URBAN TRANS.          I/O EMPLOYMENT
E  95 DTTUNT=DTTUYK*(MTTUNT/MTTUYK)
C-
F     ELSE
C ... DTTUNT    NEW BRUNSWICK   URBAN TRANS.          I/O EMPLOYMENT
E  95 DTTUNT=DTTUYK*(DTTUNT<-1>/(DTTUYK<-1>))*
02    ((MTTUNT/MTTUYK)/(MTTUNT<-1>/MTTUYK<-1>))
C-
F     END IF
C ... ETTUNT    QUEBEC          URBAN TRANS.          I/O EMPLOYMENT
E  96 ETTUNT=1000*ETTUYK*(1/(B+B*1000*(MTTUYK/MTTUNT)))
C- B(01)= -2290.512     [  -0.88] B(02)=  1.262017     [   4.60]
C- RB2=0.67 DW=0.66 S.E.E.=  917.8463     AAPE=  7.05
C- 1971-1981
C-
C ... FTTUNT    ONTARIO         URBAN TRANS.          I/O EMPLOYMENT
E  97 FTTUNT=1000*FTTUYK*(1/(B+B*1000*(MTTUYK/MTTUNT)))
C- B(01)=  2156.647     [   1.54] B(02)= 0.8694193     [   5.90]
C- RB2=0.77 DW=0.60 S.E.E.=  493.1829     AAPE=  3.63
C- 1971-1981
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```
C-
C ... GTTUNT    MANITOBA          URBAN TRANS.              I/O EMPLOYMENT
E  98 GTTUNT=1000*GTTUYK*(1/(B+B*1000*(MTTUYK/MTTUNT)))
C- B(01)= -1509.005     [  -0.46] B(02)= 0.9074515     [   2.64]
C- RB2=0.37 DW=0.91 S.E.E.=  1148.872      AAPE= 12.92
C- 1971-1981
C-
S     IF ((HTTUNT<-1> .LT. 0.0001) .OR. (HTTUYK<-1> .LT. 0.0001))
F    *THEN
C ... HTTUNT    SASKATCHEWAN      URBAN TRANS.              I/O EMPLOYMENT
E  99 HTTUNT=HTTUYK*(MTTUNT/MTTUYK)
C-
F     ELSE
C ... HTTUNT    SASKATCHEWAN      URBAN TRANS.              I/O EMPLOYMENT
E  99 HTTUNT=HTTUYK*(HTTUNT<-1>/(HTTUYK<-1>))*
02     ((MTTUNT/MTTUYK)/(MTTUNT<-1>/MTTUYK<-1>))
C-
F     END IF
S     IF ((ITTUNT<-1> .LT. 0.0001) .OR. (ITTUYK<-1> .LT. 0.0001))
F    *THEN
C ... ITTUNT    ALBERTA           URBAN TRANS.              I/O EMPLOYMENT
E 100 ITTUNT=ITTUYK*(MTTUNT/MTTUYK)
C-
F     ELSE
C ... ITTUNT    ALBERTA           URBAN TRANS.              I/O EMPLOYMENT
E 100 ITTUNT=ITTUYK*(ITTUNT<-1>/(ITTUYK<-1>))*
02     ((MTTUNT/MTTUYK)/(MTTUNT<-1>/MTTUYK<-1>))
C-
F     END IF
S     IF ((JTTUNT<-1> .LT. 0.0001) .OR. (JTTUYK<-1> .LT. 0.0001))
F    *THEN
C ... JTTUNT    B.C.              URBAN TRANS.              I/O EMPLOYMENT
E 101 JTTUNT=JTTUYK*(MTTUNT/MTTUYK)
C-
F     ELSE
C ... JTTUNT    B.C.              URBAN TRANS.              I/O EMPLOYMENT
E 101 JTTUNT=JTTUYK*(JTTUNT<-1>/(JTTUYK<-1>))*
02     ((MTTUNT/MTTUYK)/(MTTUNT<-1>/MTTUYK<-1>))
C-
F     END IF
S     IF ((TTTUNT<-1> .LT. 0.0001) .OR. (TTTUYK<-1> .LT. 0.0001))
F    *THEN
C ... TTTUNT    TERRITORIES       URBAN TRANS.              I/O EMPLOYMENT
E 102 TTTUNT=TTTUYK*(MTTUNT/MTTUYK)
C-
F     ELSE
C ... TTTUNT    TERRITORIES       URBAN TRANS.              I/O EMPLOYMENT
E 102 TTTUNT=TTTUYK*(TTTUNT<-1>/(TTTUYK<-1>))*
02     ((MTTUNT/MTTUYK)/(MTTUNT<-1>/MTTUYK<-1>))
C-
F     END IF
S     I='ATTUNT'-'ATSPNT'+1.0
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```
S       J='ATSPNT'+I-1
S       CALL SHRAD4(S(I),C(I),TTUNET,ADJ,11,E(J),X(I),J,O)
C ... STTUNT     B.C.+TER.          URBAN TRANS.              I/O EMPLOYMENT
E 103 STTUNT=JTTUNT+TTTUNT
C-
C ... MTTUNT     CANADA             URBAN TRANS.              I/O EMPLOYMENT
E 104 MTTUNT=ATTUNT+BTTUNT+CTTUNT+DTTUNT+ETTUNT+FTTUNT+GTTUNT+HTTUNT+ITTUNT+
O2      STTUNT
C-
S       IF ((ATTMNT<-1> .LT. 0.0001) .OR. (ATTMYK<-1> .LT. 0.0001))
F     *THEN
C ... ATTMNT     NEWFOUNDLAND       MOTOR TRANS.              I/O EMPLOYMENT
E 105 ATTMNT=ATTMYK*(MTTMNT/MTTMYK)
C-
F       ELSE
C ... ATTMNT     NEWFOUNDLAND       MOTOR TRANS.              I/O EMPLOYMENT
E 105 ATTMNT=ATTMYK*(ATTMNT<-1>/(ATTMYK<-1>))*
O2      ((MTTMNT/MTTMYK)/(MTTMNT<-1>/MTTMYK<-1>))
C-
F       END IF
S       IF ((BTTMNT<-1> .LT. 0.0001) .OR. (BTTMYK<-1> .LT. 0.0001))
F     *THEN
C ... BTTMNT     P.E.I.             MOTOR TRANS.              I/O EMPLOYMENT
E 106 BTTMNT=BTTMYK*(MTTMNT/MTTMYK)
C-
F       ELSE
C ... BTTMNT     P.E.I.             MOTOR TRANS.              I/O EMPLOYMENT
E 106 BTTMNT=BTTMYK*(BTTMNT<-1>/(BTTMYK<-1>))*
O2      ((MTTMNT/MTTMYK)/(MTTMNT<-1>/MTTMYK<-1>))
C-
F       END IF
S       IF ((CTTMNT<-1> .LT. 0.0001) .OR. (CTTMYK<-1> .LT. 0.0001))
F     *THEN
C ... CTTMNT     NOVA SCOTIA        MOTOR TRANS.              I/O EMPLOYMENT
E 107 CTTMNT=CTTMYK*(MTTMNT/MTTMYK)
C-
F       ELSE
C ... CTTMNT     NOVA SCOTIA        MOTOR TRANS.              I/O EMPLOYMENT
E 107 CTTMNT=CTTMYK*(CTTMNT<-1>/(CTTMYK<-1>))*
O2      ((MTTMNT/MTTMYK)/(MTTMNT<-1>/MTTMYK<-1>))
C-
F       END IF
S       IF ((DTTMNT<-1> .LT. 0.0001) .OR. (DTTMYK<-1> .LT. 0.0001))
F     *THEN
C ... DTTMNT     NEW BRUNSWICK      MOTOR TRANS.              I/O EMPLOYMENT
E 108 DTTMNT=DTTMYK*(MTTMNT/MTTMYK)
C-
F       ELSE
C ... DTTMNT     NEW BRUNSWICK      MOTOR TRANS.              I/O EMPLOYMENT
E 108 DTTMNT=DTTMYK*(DTTMNT<-1>/(DTTMYK<-1>))*
O2      ((MTTMNT/MTTMYK)/(MTTMNT<-1>/MTTMYK<-1>))
C-
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F      END IF
S      IF ((ETTMNT<-1> .LT. 0.0001) .OR. (ETTMYK<-1> .LT. 0.0001))
F     *THEN
C ... ETTMNT    QUEBEC          MOTOR TRANS.          I/O EMPLOYMENT
E 109 ETTMNT=ETTMYK*(MTTMNT/MTTMYK)
C-
F      ELSE
C ... ETTMNT    QUEBEC          MOTOR TRANS.          I/O EMPLOYMENT
E 109 ETTMNT=ETTMYK*(ETTMNT<-1>/(ETTMYK<-1>))*
02     ((MTTMNT/MTTMYK)/(MTTMNT<-1>/MTTMYK<-1>))
C-
F      END IF
C ... FTTMNT    ONTARIO         MOTOR TRANS.          I/O EMPLOYMENT
E 110 FTTMNT=1000*FTTMYK*(1/(B+B*1000*(MTTMYK/MTTMNT)))
C- B(01)= -5499.098     [  -0.74] B(02)=  1.929076     [   2.14]
C- RB2=0.26 DW=0.77 S.E.E.=  482.2967     AAPE=  3.47
C- 1971-1981
C-
S      IF ((GTTMNT<-1> .LT. 0.0001) .OR. (GTTMYK<-1> .LT. 0.0001))
F     *THEN
C ... GTTMNT    MANITOBA        MOTOR TRANS.          I/O EMPLOYMENT
E 111 GTTMNT=GTTMYK*(MTTMNT/MTTMYK)
C-
F      ELSE
C ... GTTMNT    MANITOBA        MOTOR TRANS.          I/O EMPLOYMENT
E 111 GTTMNT=GTTMYK*(GTTMNT<-1>/(GTTMYK<-1>))*
02     ((MTTMNT/MTTMYK)/(MTTMNT<-1>/MTTMYK<-1>))
C-
F      END IF
S      IF ((HTTMNT<-1> .LT. 0.0001) .OR. (HTTMYK<-1> .LT. 0.0001))
F     *THEN
C ... HTTMNT    SASKATCHEWAN    MOTOR TRANS.          I/O EMPLOYMENT
E 112 HTTMNT=HTTMYK*(MTTMNT/MTTMYK)
C-
F      ELSE
C ... HTTMNT    SASKATCHEWAN    MOTOR TRANS.          I/O EMPLOYMENT
E 112 HTTMNT=HTTMYK*(HTTMNT<-1>/(HTTMYK<-1>))*
02     ((MTTMNT/MTTMYK)/(MTTMNT<-1>/MTTMYK<-1>))
C-
F      END IF
S      IF ((ITTMNT<-1> .LT. 0.0001) .OR. (ITTMYK<-1> .LT. 0.0001))
F     *THEN
C ... ITTMNT    ALBERTA         MOTOR TRANS.          I/O EMPLOYMENT
E 113 ITTMNT=ITTMYK*(MTTMNT/MTTMYK)
C-
F      ELSE
C ... ITTMNT    ALBERTA         MOTOR TRANS.          I/O EMPLOYMENT
E 113 ITTMNT=ITTMYK*(ITTMNT<-1>/(ITTMYK<-1>))*
02     ((MTTMNT/MTTMYK)/(MTTMNT<-1>/MTTMYK<-1>))
C-
F      END IF
S      IF ((JTTMNT<-1> .LT. 0.0001) .OR. (JTTMYK<-1> .LT. 0.0001))
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F     *THEN
C ... JTTMNT     B.C.              MOTOR TRANS.            I/O EMPLOYMENT
E 114 JTTMNT=JTTMYK*(MTTMNT/MTTMYK)
C-
F      ELSE
C ... JTTMNT     B.C.              MOTOR TRANS.            I/O EMPLOYMENT
E 114 JTTMNT=JTTMYK*(JTTMNT<-1>/(JTTMYK<-1>))*
02     ((MTTMNT/MTTMYK)/(MTTMNT<-1>/MTTMYK<-1>))
C-
F      END IF
S      IF ((TTTMNT<-1> .LT. 0.0001) .OR. (TTTMYK<-1> .LT. 0.0001))
F     *THEN
C ... TTTMNT     TERRITORIES       MOTOR TRANS.            I/O EMPLOYMENT
E 115 TTTMNT=TTTMYK*(MTTMNT/MTTMYK)
C-
F      ELSE
C ... TTTMNT     TERRITORIES       MOTOR TRANS.            I/O EMPLOYMENT
E 115 TTTMNT=TTTMYK*(TTTMNT<-1>/(TTTMYK<-1>))*
02     ((MTTMNT/MTTMYK)/(MTTMNT<-1>/MTTMYK<-1>))
C-
F      END IF
S      I='ATTMNT'-'ATSPNT'+1.0
S      J='ATSPNT'+I-1
S      CALL SHRAD4(S(I),C(I),TTMNET,ADJ,11,E(J),X(1),J,0)
C ... STTMNT     B.C.+TER.         MOTOR TRANS.            I/O EMPLOYMENT
E 116 STTMNT=JTTMNT+TTTMNT
C-
C ... MTTMNT     CANADA            MOTOR TRANS.            I/O EMPLOYMENT
E 117 MTTMNT=ATTMNT+BTTMNT+CTTMNT+DTTMNT+ETTMNT+FTTMNT+GTTMNT+HTTMNT+ITTMNT+
02     STTMNT
C-
S      IF ((ATTWNT<-1> .LT. 0.0001) .OR. (ATTWYK<-1> .LT. 0.0001))
F     *THEN
C ... ATTWNT     NEWFOUNDLAND      WATER TRANS.            I/O EMPLOYMENT
E 118 ATTWNT=ATTWYK*(MTTWNT/MTTWYK)
C-
F      ELSE
C ... ATTWNT     NEWFOUNDLAND      WATER TRANS.            I/O EMPLOYMENT
E 118 ATTWNT=ATTWYK*(ATTWNT<-1>/(ATTWYK<-1>))*
02     ((MTTWNT/MTTWYK)/(MTTWNT<-1>/MTTWYK<-1>))
C-
F      END IF
S      IF ((BTTWNT<-1> .LT. 0.0001) .OR. (BTTWYK<-1> .LT. 0.0001))
F     *THEN
C ... BTTWNT     P.E.I.            WATER TRANS.            I/O EMPLOYMENT
E 119 BTTWNT=BTTWYK*(MTTWNT/MTTWYK)
C-
F      ELSE
C ... BTTWNT     P.E.I.            WATER TRANS.            I/O EMPLOYMENT
E 119 BTTWNT=BTTWYK*(BTTWNT<-1>/(BTTWYK<-1>))*
02     ((MTTWNT/MTTWYK)/(MTTWNT<-1>/MTTWYK<-1>))
C-
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F      END IF
S      IF ((CTTWNT<-1> .LT. 0.0001) .OR. (CTTWYK<-1> .LT. 0.0001))
F     *THEN
C ... CTTWNT    NOVA SCOTIA      WATER TRANS.            I/O EMPLOYMENT
E 120 CTTWNT=CTTWYK*(MTTWNT/MTTWYK)
C-
F      ELSE
C ... CTTWNT    NOVA SCOTIA      WATER TRANS.            I/O EMPLOYMENT
E 120 CTTWNT=CTTWYK*(CTTWNT<-1>/(CTTWYK<-1>))*
O2     ((MTTWNT/MTTWYK)/(MTTWNT<-1>/MTTWYK<-1>))
C-
F      END IF
S      IF ((DTTWNT<-1> .LT. 0.0001) .OR. (DTTWYK<-1> .LT. 0.0001))
F     *THEN
C ... DTTWNT    NEW BRUNSWICK    WATER TRANS.            I/O EMPLOYMENT
E 121 DTTWNT=DTTWYK*(MTTWNT/MTTWYK)
C-
F      ELSE
C ... DTTWNT    NEW BRUNSWICK    WATER TRANS.            I/O EMPLOYMENT
E 121 DTTWNT=DTTWYK*(DTTWNT<-1>/(DTTWYK<-1>))*
O2     ((MTTWNT/MTTWYK)/(MTTWNT<-1>/MTTWYK<-1>))
C-
F      END IF
C ... ETTWNT    QUEBEC           WATER TRANS.            I/O EMPLOYMENT
E 122 ETTWNT=1000*ETTWYK*(1/(B+B*1000*(MTTWYK/MTTWNT)))
C- B(01)=  2147.450     [   1.18] B(02)= 0.9247171     [   7.49]
C- RB2=0.85 DW=2.40 S.E.E.=  813.1890     AAPE=  3.29
C- 1971-1981
C-
C ... FTTWNT    ONTARIO          WATER TRANS.            I/O EMPLOYMENT
E 123 FTTWNT=1000*FTTWYK*(1/(B+B*1000*(MTTWYK/MTTWNT)))
C- B(01)= -10010.77     [  -2.64] B(02)=  2.123587     [   8.27]
C- RB2=0.87 DW=1.90 S.E.E.=  1691.001     AAPE=  6.25
C- 1971-1981
C-
S      IF ((GTTWNT<-1> .LT. 0.0001) .OR. (GTTWYK<-1> .LT. 0.0001))
F     *THEN
C ... GTTWNT    MANITOBA         WATER TRANS.            I/O EMPLOYMENT
E 124 GTTWNT=GTTWYK*(MTTWNT/MTTWYK)
C-
F      ELSE
C ... GTTWNT    MANITOBA         WATER TRANS.            I/O EMPLOYMENT
E 124 GTTWNT=GTTWYK*(GTTWNT<-1>/(GTTWYK<-1>))*
O2     ((MTTWNT/MTTWYK)/(MTTWNT<-1>/MTTWYK<-1>))
C-
F      END IF
S      IF ((HTTWNT<-1> .LT. 0.0001) .OR. (HTTWYK<-1> .LT. 0.0001))
F     *THEN
C ... HTTWNT    SASKATCHEWAN     WATER TRANS.            I/O EMPLOYMENT
E 125 HTTWNT=HTTWYK*(MTTWNT/MTTWYK)
C-
F      ELSE
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```
C ... HTTWNT    SASKATCHEWAN    WATER TRANS.          I/O EMPLOYMENT
E 125 HTTWNT=HTTWYK*(HTTWNT<-1>/(HTTWYK<-1>))*
O2     ((MTTWNT/MTTWYK)/(MTTWNT<-1>/MTTWYK<-1>))
C-
F      END IF
S      IF ((ITTWNT<-1> .LT. 0.0001) .OR. (ITTWYK<-1> .LT. 0.0001))
F     *THEN
C ... ITTWNT    ALBERTA         WATER TRANS.          I/O EMPLOYMENT
E 126 ITTWNT=ITTWYK*(MTTWNT/MTTWYK)
C-
F      ELSE
C ... ITTWNT    ALBERTA         WATER TRANS.          I/O EMPLOYMENT
E 126 ITTWNT=ITTWYK*(ITTWNT<-1>/(ITTWYK<-1>))*
O2     ((MTTWNT/MTTWYK)/(MTTWNT<-1>/MTTWYK<-1>))
C-
F      END IF
C ... JTTWNT    B.C.            WATER TRANS.          I/O EMPLOYMENT
E 127 JTTWNT=1000*JTTWYK*(1/(B+B*1000*(MTTWYK/MTTWNT)))
C- B(01)=  497.8020     [   0.53] B(02)= 0.8634380     [  13.49]
C- RB2=0.95 DW=2.53 S.E.E.=  421.3883      AAPE=  2.37
C- 1971-1981
C-
S      IF ((TTTWNT<-1> .LT. 0.0001) .OR. (TTTWYK<-1> .LT. 0.0001))
F     *THEN
C ... TTTWNT    TERRITORIES     WATER TRANS.          I/O EMPLOYMENT
E 128 TTTWNT=TTTWYK*(MTTWNT/MTTWYK)
C-
F      ELSE
C ... TTTWNT    TERRITORIES     WATER TRANS.          I/O EMPLOYMENT
E 128 TTTWNT=TTTWYK*(TTTWNT<-1>/(TTTWYK<-1>))*
O2     ((MTTWNT/MTTWYK)/(MTTWNT<-1>/MTTWYK<-1>))
C-
F      END IF
S      I='ATTWNT'-'ATSPNT'+1.0
S      J='ATSPNT'+I-1
S      CALL SHRAD4(S(I),C(I),TTWNET,ADJ,11,E(J),X(1),J,0)
C ... STTWNT    B.C.+TER.       WATER TRANS.          I/O EMPLOYMENT
E 129 STTWNT=JTTWNT+TTTWNT
C-
C ... MTTWNT    CANADA          WATER TRANS.          I/O EMPLOYMENT
E 130 MTTWNT=ATTWNT+BTTWNT+CTTWNT+DTTWNT+ETTWNT+FTTWNT+GTTWNT+HTTWNT+ITTWNT+
O2     STTWNT
C-
S      IF ((ATSTNT<-1> .LT. 0.0001) .OR. (ATSTYK<-1> .LT. 0.0001))
F     *THEN
C ... ATSTNT    NEWFOUNDLAND    STORAGE               I/O EMPLOYMENT
E 131 ATSTNT=ATSTYK*(MTSTNT/MTSTYK)
C-
F      ELSE
C ... ATSTNT    NEWFOUNDLAND    STORAGE               I/O EMPLOYMENT
E 131 ATSTNT=ATSTYK*(ATSTNT<-1>/(ATSTYK<-1>))*
O2     ((MTSTNT/MTSTYK)/(MTSTNT<-1>/MTSTYK<-1>))
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```
C-
F      END IF
S      IF ((BTSTNT<-1> .LT. 0.0001) .OR. (BTSTYK<-1> .LT. 0.0001))
F     *THEN
C ... BTSTNT    P.E.I.          STORAGE                  I/O EMPLOYMENT
E 132 BTSTNT=BTSTYK*(MTSTNT/MTSTYK)
C-
F      ELSE
C ... BTSTNT    P.E.I.          STORAGE                  I/O EMPLOYMENT
E 132 BTSTNT=BTSTYK*(BTSTNT<-1>/(BTSTYK<-1>))*
O2     ((MTSTNT/MTSTYK)/(MTSTNT<-1>/MTSTYK<-1>))
C-
F      END IF
S      IF ((CTSTNT<-1> .LT. 0.0001) .OR. (CTSTYK<-1> .LT. 0.0001))
F     *THEN
C ... CTSTNT    NOVA SCOTIA     STORAGE                  I/O EMPLOYMENT
E 133 CTSTNT=CTSTYK*(MTSTNT/MTSTYK)
C-
F      ELSE
C ... CTSTNT    NOVA SCOTIA     STORAGE                  I/O EMPLOYMENT
E 133 CTSTNT=CTSTYK*(CTSTNT<-1>/(CTSTYK<-1>))*
O2     ((MTSTNT/MTSTYK)/(MTSTNT<-1>/MTSTYK<-1>))
C-
F      END IF
S      IF ((DTSTNT<-1> .LT. 0.0001) .OR. (DTSTYK<-1> .LT. 0.0001))
F     *THEN
C ... DTSTNT    NEW BRUNSWICK   STORAGE                  I/O EMPLOYMENT
E 134 DTSTNT=DTSTYK*(MTSTNT/MTSTYK)
C-
F      ELSE
C ... DTSTNT    NEW BRUNSWICK   STORAGE                  I/O EMPLOYMENT
E 134 DTSTNT=DTSTYK*(DTSTNT<-1>/(DTSTYK<-1>))*
O2     ((MTSTNT/MTSTYK)/(MTSTNT<-1>/MTSTYK<-1>))
C-
F      END IF
S      IF ((ETSTNT<-1> .LT. 0.0001) .OR. (ETSTYK<-1> .LT. 0.0001))
F     *THEN
C ... ETSTNT    QUEBEC          STORAGE                  I/O EMPLOYMENT
E 135 ETSTNT=ETSTYK*(MTSTNT/MTSTYK)
C-
F      ELSE
C ... ETSTNT    QUEBEC          STORAGE                  I/O EMPLOYMENT
E 135 ETSTNT=ETSTYK*(ETSTNT<-1>/(ETSTYK<-1>))*
O2     ((MTSTNT/MTSTYK)/(MTSTNT<-1>/MTSTYK<-1>))
C-
F      END IF
C ... FTSTNT    ONTARIO         STORAGE                  I/O EMPLOYMENT
E 136 FTSTNT=1000*FTSTYK*(1/(B+B*1000*(MTSTYK/MTSTNT)))
C- B(01)= -6591.432    [  -2.27] B(02)=  2.221982    [   9.08]
C- RB2=0.89 DW=1.26 S.E.E.=  813.9352     AAPE=  2.94
C- 1971-1981
C-
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```
C ... GTSTNT    MANITOBA          STORAGE                    I/O EMPLOYMENT
E 137 GTSTNT=1000*GTSTYK*(1/(B+B*1000*(MTSTYK/MTSTNT)))
C- B(01)=  265.8482     [   0.45] B(02)= 0.2888806     [   5.77]
C- RB2=0.76 DW=2.12 S.E.E.=  166.5333      AAPE=  3.32
C- 1971-1981
C-
S     IF ((HTSTNT<-1> .LT. 0.0001) .OR. (HTSTYK<-1> .LT. 0.0001))
F    *THEN
C ... HTSTNT    SASKATCHEWAN      STORAGE                    I/O EMPLOYMENT
E 138 HTSTNT=HTSTYK*(MTSTNT/MTSTYK)
C-
F     ELSE
C ... HTSTNT    SASKATCHEWAN      STORAGE                    I/O EMPLOYMENT
E 138 HTSTNT=HTSTYK*(HTSTNT<-1>/(HTSTYK<-1>))*
02    ((MTSTNT/MTSTYK)/(MTSTNT<-1>/MTSTYK<-1>))
C-
F     END IF
S     IF ((ITSTNT<-1> .LT. 0.0001) .OR. (ITSTYK<-1> .LT. 0.0001))
F    *THEN
C ... ITSTNT    ALBERTA           STORAGE                    I/O EMPLOYMENT
E 139 ITSTNT=ITSTYK*(MTSTNT/MTSTYK)
C-
F     ELSE
C ... ITSTNT    ALBERTA           STORAGE                    I/O EMPLOYMENT
E 139 ITSTNT=ITSTYK*(ITSTNT<-1>/(ITSTYK<-1>))*
02    ((MTSTNT/MTSTYK)/(MTSTNT<-1>/MTSTYK<-1>))
C-
F     END IF
S     IF ((JTSTNT<-1> .LT. 0.0001) .OR. (JTSTYK<-1> .LT. 0.0001))
F    *THEN
C ... JTSTNT    B.C.              STORAGE                    I/O EMPLOYMENT
E 140 JTSTNT=JTSTYK*(MTSTNT/MTSTYK)
C-
F     ELSE
C ... JTSTNT    B.C.              STORAGE                    I/O EMPLOYMENT
E 140 JTSTNT=JTSTYK*(JTSTNT<-1>/(JTSTYK<-1>))*
02    ((MTSTNT/MTSTYK)/(MTSTNT<-1>/MTSTYK<-1>))
C-
F     END IF
C ... TTSTNT    TERRITORIES       STORAGE                    I/O EMPLOYMENT
E 141 TTSTNT=1000*TTSTYK*(1/(B+B*1000*(MTSTYK/MTSTNT)))
C- B(01)= -3067162.     [  -1.11] B(02)=  651.6053     [   2.78]
C- RB2=0.40 DW=1.72 S.E.E.=  778377.4      AAPE= 10.75
C- 1971-1981
C-
S     I='ATSTNT'-'ATSPNT'+1.0
S     J='ATSPNT'+I-1
S     CALL SHRAD4(S(I),C(I),TSTNET,ADJ,11,E(J),X(1),J,0)
C ... STSTNT    B.C.+TER.         STORAGE                    I/O EMPLOYMENT
E 142 STSTNT=JTSTNT+TTSTNT
C-
C ... MTSTNT    CANADA            STORAGE                    I/O EMPLOYMENT
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```
E 143 MTSTNT=ATSTNT+BTSTNT+CTSTNT+DTSTNT+ETSTNT+FTSTNT+GTSTNT+HTSTNT+ITSTNT+
O2     STSTNT
C-
S      IF ((ATCRNT<-1> .LT. 0.0001) .OR. (ATCRYK<-1> .LT. 0.0001))
F     *THEN
C ... ATCRNT     NEWFOUNDLAND     RADIO+T.V.              I/O EMPLOYMENT
E 157 ATCRNT=ATCRYK*(MTCRNT/MTCRYK)
C-
F      ELSE
C ... ATCRNT     NEWFOUNDLAND     RADIO+T.V.              I/O EMPLOYMENT
E 157 ATCRNT=ATCRYK*(ATCRNT<-1>/(ATCRYK<-1>))*
O2     ((MTCRNT/MTCRYK)/(MTCRNT<-1>/MTCRYK<-1>))
C-
F      END IF
S      IF ((BTCRNT<-1> .LT. 0.0001) .OR. (BTCRYK<-1> .LT. 0.0001))
F     *THEN
C ... BTCRNT     P.E.I.           RADIO+T.V.              I/O EMPLOYMENT
E 158 BTCRNT=BTCRYK*(MTCRNT/MTCRYK)
C-
F      ELSE
C ... BTCRNT     P.E.I.           RADIO+T.V.              I/O EMPLOYMENT
E 158 BTCRNT=BTCRYK*(BTCRNT<-1>/(BTCRYK<-1>))*
O2     ((MTCRNT/MTCRYK)/(MTCRNT<-1>/MTCRYK<-1>))
C-
F      END IF
C ... CTCRNT     NOVA SCOTIA      RADIO+T.V.              I/O EMPLOYMENT
E 159 CTCRNT=1000*CTCRYK*(1/(B+B*1000*(MTCRYK/MTCRNT)))
C- B(01)= -8623.828     [  -0.82] B(02)=  1.425403     [   2.25]
C- RB2=0.29 DW=1.09 S.E.E.=  2143.218      AAPE=  9.36
C- 1971-1981
C-
S      IF ((DTCRNT<-1> .LT. 0.0001) .OR. (DTCRYK<-1> .LT. 0.0001))
F     *THEN
C ... DTCRNT     NEW BRUNSWICK    RADIO+T.V.              I/O EMPLOYMENT
E 160 DTCRNT=DTCRYK*(MTCRNT/MTCRYK)
C-
F      ELSE
C ... DTCRNT     NEW BRUNSWICK    RADIO+T.V.              I/O EMPLOYMENT
E 160 DTCRNT=DTCRYK*(DTCRNT<-1>/(DTCRYK<-1>))*
O2     ((MTCRNT/MTCRYK)/(MTCRNT<-1>/MTCRYK<-1>))
C-
F      END IF
C ... ETCRNT     QUEBEC           RADIO+T.V.              I/O EMPLOYMENT
E 161 ETCRNT=1000*ETCRYK*(1/(B+B*1000*(MTCRYK/MTCRNT)))
C- B(01)= -1329.282     [  -0.21] B(02)= 0.9791865     [   2.61]
C- RB2=0.37 DW=1.35 S.E.E.=  1268.644      AAPE=  6.25
C- 1971-1981
C-
S      IF ((FTCRNT<-1> .LT. 0.0001) .OR. (FTCRYK<-1> .LT. 0.0001))
F     *THEN
C ... FTCRNT     ONTARIO          RADIO+T.V.              I/O EMPLOYMENT
E 162 FTCRNT=FTCRYK*(MTCRNT/MTCRYK)
```


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```
C-
F      ELSE
C ...  FTCRNT    ONTARIO          RADIO+T.V.              I/O EMPLOYMENT
E 162  FTCRNT=FTCRYK*(FTCRNT<-1>/(FTCRYK<-1>))*
02     ((MTCRNT/MTCRYK)/(MTCRNT<-1>/MTCRYK<-1>))
C-
F      END IF
S      IF ((GTCRNT<-1> .LT. 0.0001) .OR. (GTCRYK<-1> .LT. 0.0001))
F     *THEN
C ...  GTCRNT    MANITOBA         RADIO+T.V.              I/O EMPLOYMENT
E 163  GTCRNT=GTCRYK*(MTCRNT/MTCRYK)
C-
F      ELSE
C ...  GTCRNT    MANITOBA         RADIO+T.V.              I/O EMPLOYMENT
E 163  GTCRNT=GTCRYK*(GTCRNT<-1>/(GTCRYK<-1>))*
02     ((MTCRNT/MTCRYK)/(MTCRNT<-1>/MTCRYK<-1>))
C-
F      END IF
S      IF ((HTCRNT<-1> .LT. 0.0001) .OR. (HTCRYK<-1> .LT. 0.0001))
F     *THEN
C ...  HTCRNT    SASKATCHEWAN     RADIO+T.V.              I/O EMPLOYMENT
E 164  HTCRNT=HTCRYK*(MTCRNT/MTCRYK)
C-
F      ELSE
C ...  HTCRNT    SASKATCHEWAN     RADIO+T.V.              I/O EMPLOYMENT
E 164  HTCRNT=HTCRYK*(HTCRNT<-1>/(HTCRYK<-1>))*
02     ((MTCRNT/MTCRYK)/(MTCRNT<-1>/MTCRYK<-1>))
C-
F      END IF
S      IF ((ITCRNT<-1> .LT. 0.0001) .OR. (ITCRYK<-1> .LT. 0.0001))
F     *THEN
C ...  ITCRNT    ALBERTA          RADIO+T.V.              I/O EMPLOYMENT
E 165  ITCRNT=ITCRYK*(MTCRNT/MTCRYK)
C-
F      ELSE
C ...  ITCRNT    ALBERTA          RADIO+T.V.              I/O EMPLOYMENT
E 165  ITCRNT=ITCRYK*(ITCRNT<-1>/(ITCRYK<-1>))*
02     ((MTCRNT/MTCRYK)/(MTCRNT<-1>/MTCRYK<-1>))
C-
F      END IF
S      IF ((JTCRNT<-1> .LT. 0.0001) .OR. (JTCRYK<-1> .LT. 0.0001))
F     *THEN
C ...  JTCRNT    B.C.             RADIO+T.V.              I/O EMPLOYMENT
E 166  JTCRNT=JTCRYK*(MTCRNT/MTCRYK)
C-
F      ELSE
C ...  JTCRNT    B.C.             RADIO+T.V.              I/O EMPLOYMENT
E 166  JTCRNT=JTCRYK*(JTCRNT<-1>/(JTCRYK<-1>))*
02     ((MTCRNT/MTCRYK)/(MTCRNT<-1>/MTCRYK<-1>))
C-
F      END IF
S      IF ((TTCRNT<-1> .LT. 0.0001) .OR. (TTCRYK<-1> .LT. 0.0001))
```

PROVINCIAL ESTIMATION RESULTS
TERTIARY EMPLOYMENT BY PROVINCE

```
F     *THEN
C ... TTCRNT     TERRITORIES      RADIO+T.V.              I/O EMPLOYMENT
E 167 TTCRNT=TTCRYK*(MTCRNT/MTCRYK)
C-
F     ELSE
C ... TTCRNT     TERRITORIES      RADIO+T.V.              I/O EMPLOYMENT
E 167 TTCRNT=TTCRYK*(TTCRNT<-1>/(TTCRYK<-1>))*
O2    ((MTCRNT/MTCRYK)/(MTCRNT<-1>/MTCRYK<-1>))
C-
F     END IF
S     I='ATCRNT'-'ATSPNT'+1.0
S     J='ATSPNT'+I-1
S     CALL SHRAD4(S(I),C(I),TCRNET,ADJ,11,E(J),X(1),J,0)
C ... STCRNT     B.C.+TER.        RADIO+T.V.              I/O EMPLOYMENT
E 168 STCRNT=JTCRNT+TTCRNT
C-
C ... MTCRNT     CANADA           RADIO+T.V.              I/O EMPLOYMENT
E 169 MTCRNT=ATCRNT+BTCRNT+CTCRNT+DTCRNT+ETCRNT+FTCRNT+GTCRNT+HTCRNT+ITCRNT+
O2    STCRNT
C-
C ... ATCBNT     NEWFOUNDLAND     TELEPHONE COMM.         I/O EMPLOYMENT
E 170 ATCBNT=1000*ATCBYK*(1/(B+B*1000*(MTCBYK/MTCBNT)))
C- B(01)= -9294.569     [  -2.63] B(02)= 0.9983597     [   7.63]
C- RB2=0.85 DW=0.98 S.E.E.=  1481.191     AAPE=  7.08
C- 1971-1981
C-
S     IF ((BTCBNT<-1> .LT. 0.0001) .OR. (BTCBYK<-1> .LT. 0.0001))
F    *THEN
C ... BTCBNT     P.E.I.           TELEPHONE COMM.         I/O EMPLOYMENT
E 171 BTCBNT=BTCBYK*(MTCBNT/MTCBYK)
C-
F     ELSE
C ... BTCBNT     P.E.I.           TELEPHONE COMM.         I/O EMPLOYMENT
E 171 BTCBNT=BTCBYK*(BTCBNT<-1>/(BTCBYK<-1>))*
O2    ((MTCBNT/MTCBYK)/(MTCBNT<-1>/MTCBYK<-1>))
C-
F     END IF
S     IF ((CTCBNT<-1> .LT. 0.0001) .OR. (CTCBYK<-1> .LT. 0.0001))
F    *THEN
C ... CTCBNT     NOVA SCOTIA      TELEPHONE COMM.         I/O EMPLOYMENT
E 172 CTCBNT=CTCBYK*(MTCBNT/MTCBYK)
C-
F     ELSE
C ... CTCBNT     NOVA SCOTIA      TELEPHONE COMM.         I/O EMPLOYMENT
E 172 CTCBNT=CTCBYK*(CTCBNT<-1>/(CTCBYK<-1>))*
O2    ((MTCBNT/MTCBYK)/(MTCBNT<-1>/MTCBYK<-1>))
C-
F     END IF
S     IF ((DTCBNT<-1> .LT. 0.0001) .OR. (DTCBYK<-1> .LT. 0.0001))
F    *THEN
C ... DTCBNT     NEW BRUNSWICK    TELEPHONE COMM.         I/O EMPLOYMENT
E 173 DTCBNT=DTCBYK*(MTCBNT/MTCBYK)
```


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```
C-
F      ELSE
C ... DTCBNT    NEW BRUNSWICK   TELEPHONE COMM.          I/O EMPLOYMENT
E 173 DTCBNT=DTCBYK*(DTCBNT<-1>/(DTCBYK<-1>))*
O2     ((MTCBNT/MTCBYK)/(MTCBNT<-1>/MTCBYK<-1>))
C-
F      END IF
C ... ETCBNT    QUEBEC          TELEPHONE COMM.          I/O EMPLOYMENT
E 174 ETCBNT=1000*ETCBYK*(1/(B+B*1000*(MTCBYK/MTCBNT)))
C- B(01)= -1183.981     [  -0.43] B(02)= 0.9563895     [   9.33]
C- RB2=0.90 DW=2.53 S.E.E.=  1159.862     AAPE=  3.68
C- 1971-1981
C-
S      IF ((FTCBNT<-1> .LT. 0.0001) .OR. (FTCBYK<-1> .LT. 0.0001))
F     *THEN
C ... FTCBNT    ONTARIO         TELEPHONE COMM.          I/O EMPLOYMENT
E 175 FTCBNT=FTCBYK*(MTCBNT/MTCBYK)
C-
F      ELSE
C ... FTCBNT    ONTARIO         TELEPHONE COMM.          I/O EMPLOYMENT
E 175 FTCBNT=FTCBYK*(FTCBNT<-1>/(FTCBYK<-1>))*
O2     ((MTCBNT/MTCBYK)/(MTCBNT<-1>/MTCBYK<-1>))
C-
F      END IF
S      IF ((GTCBNT<-1> .LT. 0.0001) .OR. (GTCBYK<-1> .LT. 0.0001))
F     *THEN
C ... GTCBNT    MANITOBA        TELEPHONE COMM.          I/O EMPLOYMENT
E 176 GTCBNT=GTCBYK*(MTCBNT/MTCBYK)
C-
F      ELSE
C ... GTCBNT    MANITOBA        TELEPHONE COMM.          I/O EMPLOYMENT
E 176 GTCBNT=GTCBYK*(GTCBNT<-1>/(GTCBYK<-1>))*
O2     ((MTCBNT/MTCBYK)/(MTCBNT<-1>/MTCBYK<-1>))
C-
F      END IF
S      IF ((HTCBNT<-1> .LT. 0.0001) .OR. (HTCBYK<-1> .LT. 0.0001))
F     *THEN
C ... HTCBNT    SASKATCHEWAN    TELEPHONE COMM.          I/O EMPLOYMENT
E 177 HTCBNT=HTCBYK*(MTCBNT/MTCBYK)
C-
F      ELSE
C ... HTCBNT    SASKATCHEWAN    TELEPHONE COMM.          I/O EMPLOYMENT
E 177 HTCBNT=HTCBYK*(HTCBNT<-1>/(HTCBYK<-1>))*
O2     ((MTCBNT/MTCBYK)/(MTCBNT<-1>/MTCBYK<-1>))
C-
F      END IF
S      IF ((ITCBNT<-1> .LT. 0.0001) .OR. (ITCBYK<-1> .LT. 0.0001))
F     *THEN
C ... ITCBNT    ALBERTA         TELEPHONE COMM.          I/O EMPLOYMENT
E 178 ITCBNT=ITCBYK*(MTCBNT/MTCBYK)
C-
F      ELSE
```


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PROVINCIAL ESTIMATION RESULTS
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```
C ... ITCBNT    ALBERTA          TELEPHONE COMM.          I/O EMPLOYMENT
E 178 ITCBNT=ITCBYK*(ITCBNT<-1>/(ITCBYK<-1>))*
O2    ((MTCBNT/MTCBYK)/(MTCBNT<-1>/MTCBYK<-1>))
C-
F     END IF
C ... JTCBNT    B.C.             TELEPHONE COMM.          I/O EMPLOYMENT
E 179 JTCBNT=1000*JTCBYK*(1/(B+B*1000*(MTCBYK/MTCBNT)))
C- B(01)= -14482.25     [  -5.42] B(02)=  1.517937     [  15.34]
C- RB2=0.96 DW=1.84 S.E.E.=  1119.768     AAPE=  2.82
C- 1971-1981
C-
S     IF ((TTCBNT<-1> .LT. 0.0001) .OR. (TTCBYK<-1> .LT. 0.0001))
F    *THEN
C ... TTCBNT    TERRITORIES      TELEPHONE COMM.          I/O EMPLOYMENT
E 180 TTCBNT=TTCBYK*(MTCBNT/MTCBYK)
C-
F     ELSE
C ... TTCBNT    TERRITORIES      TELEPHONE COMM.          I/O EMPLOYMENT
E 180 TTCBNT=TTCBYK*(TTCBNT<-1>/(TTCBYK<-1>))*
O2    ((MTCBNT/MTCBYK)/(MTCBNT<-1>/MTCBYK<-1>))
C-
F     END IF
S     I='ATCBNT'-'ATSPNT'+1.0
S     J='ATSPNT'+I-1
S     CALL SHRAD4(S(I),C(I),TCBNET,ADJ,11,E(J),X(1),J,0)
C ... STCBNT    B.C.+TER.        TELEPHONE COMM.          I/O EMPLOYMENT
E 181 STCBNT=JTCBNT+TTCBNT
C-
C ... MTCBNT    CANADA           TELEPHONE COMM.          I/O EMPLOYMENT
E 182 MTCBNT=ATCBNT+BTCBNT+CTCBNT+DTCBNT+ETCBNT+FTCBNT+GTCBNT+HTCBNT+ITCBNT+
O2    STCBNT
C-
S     IF ((ATCPNT<-1> .LT. 0.0001) .OR. (ATCPYK<-1> .LT. 0.0001))
F    *THEN
C ... ATCPNT    NEWFOUNDLAND     POSTAL COMM.             I/O EMPLOYMENT
E 183 ATCPNT=ATCPYK*(MTCPNT/MTCPYK)
C-
F     ELSE
C ... ATCPNT    NEWFOUNDLAND     POSTAL COMM.             I/O EMPLOYMENT
E 183 ATCPNT=ATCPYK*(ATCPNT<-1>/(ATCPYK<-1>))*
O2    ((MTCPNT/MTCPYK)/(MTCPNT<-1>/MTCPYK<-1>))
C-
F     END IF
S     IF ((BTCPNT<-1> .LT. 0.0001) .OR. (BTCPYK<-1> .LT. 0.0001))
F    *THEN
C ... BTCPNT    P.E.I.           POSTAL COMM.             I/O EMPLOYMENT
E 184 BTCPNT=BTCPYK*(MTCPNT/MTCPYK)
C-
F     ELSE
C ... BTCPNT    P.E.I.           POSTAL COMM.             I/O EMPLOYMENT
E 184 BTCPNT=BTCPYK*(BTCPNT<-1>/(BTCPYK<-1>))*
O2    ((MTCPNT/MTCPYK)/(MTCPNT<-1>/MTCPYK<-1>))
```


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```
C-
F      END IF
S      IF ((CTCPNT<-1> .LT. 0.0001) .OR. (CTCPYK<-1> .LT. 0.0001))
F     *THEN
C ... CTCPNT    NOVA SCOTIA      POSTAL COMM.            I/O EMPLOYMENT
E 185 CTCPNT=CTCPYK*(MTCPNT/MTCPYK)
C-
F      ELSE
C ... CTCPNT    NOVA SCOTIA      POSTAL COMM.            I/O EMPLOYMENT
E 185 CTCPNT=CTCPYK*(CTCPNT<-1>/(CTCPYK<-1>))*
O2     ((MTCPNT/MTCPYK)/(MTCPNT<-1>/MTCPYK<-1>))
C-
F      END IF
S      IF ((DTCPNT<-1> .LT. 0.0001) .OR. (DTCPYK<-1> .LT. 0.0001))
F     *THEN
C ... DTCPNT    NEW BRUNSWICK    POSTAL COMM.            I/O EMPLOYMENT
E 186 DTCPNT=DTCPYK*(MTCPNT/MTCPYK)
C-
F      ELSE
C ... DTCPNT    NEW BRUNSWICK    POSTAL COMM.            I/O EMPLOYMENT
E 186 DTCPNT=DTCPYK*(DTCPNT<-1>/(DTCPYK<-1>))*
O2     ((MTCPNT/MTCPYK)/(MTCPNT<-1>/MTCPYK<-1>))
C-
F      END IF
S      IF ((ETCPNT<-1> .LT. 0.0001) .OR. (ETCPYK<-1> .LT. 0.0001))
F     *THEN
C ... ETCPNT    QUEBEC           POSTAL COMM.            I/O EMPLOYMENT
E 187 ETCPNT=ETCPYK*(MTCPNT/MTCPYK)
C-
F      ELSE
C ... ETCPNT    QUEBEC           POSTAL COMM.            I/O EMPLOYMENT
E 187 ETCPNT=ETCPYK*(ETCPNT<-1>/(ETCPYK<-1>))*
O2     ((MTCPNT/MTCPYK)/(MTCPNT<-1>/MTCPYK<-1>))
C-
F      END IF
S      IF ((FTCPNT<-1> .LT. 0.0001) .OR. (FTCPYK<-1> .LT. 0.0001))
F     *THEN
C ... FTCPNT    ONTARIO          POSTAL COMM.            I/O EMPLOYMENT
E 188 FTCPNT=FTCPYK*(MTCPNT/MTCPYK)
C-
F      ELSE
C ... FTCPNT    ONTARIO          POSTAL COMM.            I/O EMPLOYMENT
E 188 FTCPNT=FTCPYK*(FTCPNT<-1>/(FTCPYK<-1>))*
O2     ((MTCPNT/MTCPYK)/(MTCPNT<-1>/MTCPYK<-1>))
C-
F      END IF
S      IF ((GTCPNT<-1> .LT. 0.0001) .OR. (GTCPYK<-1> .LT. 0.0001))
F     *THEN
C ... GTCPNT    MANITOBA         POSTAL COMM.            I/O EMPLOYMENT
E 189 GTCPNT=GTCPYK*(MTCPNT/MTCPYK)
C-
F      ELSE
```


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PROVINCIAL ESTIMATION RESULTS
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```
C ... GTCPNT    MANITOBA          POSTAL COMM.            I/O EMPLOYMENT
E 189 GTCPNT=GTCPYK*(GTCPNT<-1>/(GTCPYK<-1>))*
02     ((MTCPNT/MTCPYK)/(MTCPNT<-1>/MTCPYK<-1>))
C-
F      END IF
C ... HTCPNT    SASKATCHEWAN      POSTAL COMM.            I/O EMPLOYMENT
E 190 HTCPNT=1000*HTCPYK*(1/(B+B*1000*(MTCPYK/MTCPNT)))
C- B(01)= -3570.252     [  -0.65] B(02)=  1.472363     [   2.03]
C- RB2=0.24 DW=1.05 S.E.E.=  1064.098      AAPE= 11.27
C- 1971-1981
C-
S      IF ((ITCPNT<-1> .LT. 0.0001) .OR. (ITCPYK<-1> .LT. 0.0001))
F     *THEN
C ... ITCPNT    ALBERTA           POSTAL COMM.            I/O EMPLOYMENT
E 191 ITCPNT=ITCPYK*(MTCPNT/MTCPYK)
C-
F      ELSE
C ... ITCPNT    ALBERTA           POSTAL COMM.            I/O EMPLOYMENT
E 191 ITCPNT=ITCPYK*(ITCPNT<-1>/(ITCPYK<-1>))*
02     ((MTCPNT/MTCPYK)/(MTCPNT<-1>/MTCPYK<-1>))
C-
F      END IF
S      IF ((JTCPNT<-1> .LT. 0.0001) .OR. (JTCPYK<-1> .LT. 0.0001))
F     *THEN
C ... JTCPNT    B.C.              POSTAL COMM.            I/O EMPLOYMENT
E 192 JTCPNT=JTCPYK*(MTCPNT/MTCPYK)
C-
F      ELSE
C ... JTCPNT    B.C.              POSTAL COMM.            I/O EMPLOYMENT
E 192 JTCPNT=JTCPYK*(JTCPNT<-1>/(JTCPYK<-1>))*
02     ((MTCPNT/MTCPYK)/(MTCPNT<-1>/MTCPYK<-1>))
C-
F      END IF
S      IF ((TTCPNT<-1> .LT. 0.0001) .OR. (TTCPYK<-1> .LT. 0.0001))
F     *THEN
C ... TTCPNT    TERRITORIES       POSTAL COMM.            I/O EMPLOYMENT
E 193 TTCPNT=TTCPYK*(MTCPNT/MTCPYK)
C-
F      ELSE
C ... TTCPNT    TERRITORIES       POSTAL COMM.            I/O EMPLOYMENT
E 193 TTCPNT=TTCPYK*(TTCPNT<-1>/(TTCPYK<-1>))*
02     ((MTCPNT/MTCPYK)/(MTCPNT<-1>/MTCPYK<-1>))
C-
F      END IF
S      I='ATCPNT'-'ATSPNT'+1.0
S      J='ATSPNT'+I-1
S      CALL SHRAD4(S(I),C(I),TCPNET,ADJ,11,E(J),X(1),J,0)
C ... STCPNT    B.C.+TER.         POSTAL COMM.            I/O EMPLOYMENT
E 194 STCPNT=JTCPNT+TTCPNT
C-
C ... MTCPNT    CANADA            POSTAL COMM.            I/O EMPLOYMENT
E 195 MTCPNT=ATCPNT+BTCPNT+CTCPNT+DTCPNT+ETCPNT+FTCPNT+GTCPNT+HTCPNT+ITCPNT+
```


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```
02    STCPNT
C-
S     IF ((AUTENT<-1> .LT. 0.0001) .OR. (AUTEYK<-1> .LT. 0.0001))
F    *THEN
C ... AUTENT    NEWFOUNDLAND    ELECTRIC UTIL.          I/O EMPLOYMENT
E 209 AUTENT=AUTEYK*(MUTENT/MUTEYK)
C-
F     ELSE
C ... AUTENT    NEWFOUNDLAND    ELECTRIC UTIL.          I/O EMPLOYMENT
E 209 AUTENT=AUTEYK*(AUTENT<-1>/(AUTEYK<-1>))*
02    ((MUTENT/MUTEYK)/(MUTENT<-1>/MUTEYK<-1>))
C-
F     END IF
S     IF ((BUTENT<-1> .LT. 0.0001) .OR. (BUTEYK<-1> .LT. 0.0001))
F    *THEN
C ... BUTENT    P.E.I.          ELECTRIC UTIL.          I/O EMPLOYMENT
E 210 BUTENT=BUTEYK*(MUTENT/MUTEYK)
C-
F     ELSE
C ... BUTENT    P.E.I.          ELECTRIC UTIL.          I/O EMPLOYMENT
E 210 BUTENT=BUTEYK*(BUTENT<-1>/(BUTEYK<-1>))*
02    ((MUTENT/MUTEYK)/(MUTENT<-1>/MUTEYK<-1>))
C-
F     END IF
S     IF ((CUTENT<-1> .LT. 0.0001) .OR. (CUTEYK<-1> .LT. 0.0001))
F    *THEN
C ... CUTENT    NOVA SCOTIA     ELECTRIC UTIL.          I/O EMPLOYMENT
E 211 CUTENT=CUTEYK*(MUTENT/MUTEYK)
C-
F     ELSE
C ... CUTENT    NOVA SCOTIA     ELECTRIC UTIL.          I/O EMPLOYMENT
E 211 CUTENT=CUTEYK*(CUTENT<-1>/(CUTEYK<-1>))*
02    ((MUTENT/MUTEYK)/(MUTENT<-1>/MUTEYK<-1>))
C-
F     END IF
S     IF ((DUTENT<-1> .LT. 0.0001) .OR. (DUTEYK<-1> .LT. 0.0001))
F    *THEN
C ... DUTENT    NEW BRUNSWICK   ELECTRIC UTIL.          I/O EMPLOYMENT
E 212 DUTENT=DUTEYK*(MUTENT/MUTEYK)
C-
F     ELSE
C ... DUTENT    NEW BRUNSWICK   ELECTRIC UTIL.          I/O EMPLOYMENT
E 212 DUTENT=DUTEYK*(DUTENT<-1>/(DUTEYK<-1>))*
02    ((MUTENT/MUTEYK)/(MUTENT<-1>/MUTEYK<-1>))
C-
F     END IF
C ... EUTENT    QUEBEC          ELECTRIC UTIL.          I/O EMPLOYMENT
E 213 EUTENT=1000*EUTEYK*(1/(B+B*1000*(MUTEYK/MUTENT)))
C- B(01)=  522.1474    [   0.09] B(02)=  1.039936    [   5.55]
C- RB2=0.75 DW=1.12 S.E.E.=  1815.878     AAPE=  4.04
C- 1971-1981
C-
```


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```
C ... FUTENT    ONTARIO          ELECTRIC UTIL.          I/O EMPLOYMENT
E 214 FUTENT=1000*FUTEYK*(1/(B+B*1000*(MUTEYK/MUTENT)))
C- B(01)=  676.1906     [   0.13] B(02)= 0.8279992     [   5.01]
C- RB2=0.71 DW=2.31 S.E.E.=  1601.794      AAPE=  3.40
C- 1971-1981
C-
S      IF ((GUTENT<-1> .LT. 0.0001) .OR. (GUTEYK<-1> .LT. 0.0001))
F     *THEN
C ... GUTENT    MANITOBA         ELECTRIC UTIL.          I/O EMPLOYMENT
E 215 GUTENT=GUTEYK*(MUTENT/MUTEYK)
C-
F      ELSE
C ... GUTENT    MANITOBA         ELECTRIC UTIL.          I/O EMPLOYMENT
E 215 GUTENT=GUTEYK*(GUTENT<-1>/(GUTEYK<-1>))*
02     ((MUTENT/MUTEYK)/(MUTENT<-1>/MUTEYK<-1>))
C-
F      END IF
C ... HUTENT    SASKATCHEWAN     ELECTRIC UTIL.          I/O EMPLOYMENT
E 216 HUTENT=1000*HUTEYK*(1/(B+B*1000*(MUTEYK/MUTENT)))
C- B(01)=  4218.987     [   1.03] B(02)=  1.101809     [   8.16]
C- RB2=0.87 DW=1.83 S.E.E.=  1307.911      AAPE=  2.85
C- 1971-1981
C-
S      IF ((IUTENT<-1> .LT. 0.0001) .OR. (IUTEYK<-1> .LT. 0.0001))
F     *THEN
C ... IUTENT    ALBERTA          ELECTRIC UTIL.          I/O EMPLOYMENT
E 217 IUTENT=IUTEYK*(MUTENT/MUTEYK)
C-
F      ELSE
C ... IUTENT    ALBERTA          ELECTRIC UTIL.          I/O EMPLOYMENT
E 217 IUTENT=IUTEYK*(IUTENT<-1>/(IUTEYK<-1>))*
02     ((MUTENT/MUTEYK)/(MUTENT<-1>/MUTEYK<-1>))
C-
F      END IF
C ... JUTENT    B.C.             ELECTRIC UTIL.          I/O EMPLOYMENT
E 218 JUTENT=1000*JUTEYK*(1/(B+B*1000*(MUTEYK/MUTENT)))
C- B(01)=  10309.10     [   0.61] B(02)=  1.185449     [   2.13]
C- RB2=0.26 DW=1.61 S.E.E.=  5398.307      AAPE=  9.20
C- 1971-1981
C-
S      IF ((TUTENT<-1> .LT. 0.0001) .OR. (TUTEYK<-1> .LT. 0.0001))
F     *THEN
C ... TUTENT    TERRITORIES      ELECTRIC UTIL.          I/O EMPLOYMENT
E 219 TUTENT=TUTEYK*(MUTENT/MUTEYK)
C-
F      ELSE
C ... TUTENT    TERRITORIES      ELECTRIC UTIL.          I/O EMPLOYMENT
E 219 TUTENT=TUTEYK*(TUTENT<-1>/(TUTEYK<-1>))*
02     ((MUTENT/MUTEYK)/(MUTENT<-1>/MUTEYK<-1>))
C-
F      END IF
S      I='AUTENT'-'ATSPNT'+1.0
```


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```
S      J='ATSPNT'+I-1
S      CALL SHRAD4(S(I),C(I),UTENET,ADJ,11,E(J),X(1),J,0)
C ... SUTENT    B.C.+TER.        ELECTRIC UTIL.          I/O EMPLOYMENT
E 220 SUTENT=JUTENT+TUTENT
C-
C ... MUTENT    CANADA           ELECTRIC UTIL.          I/O EMPLOYMENT
E 221 MUTENT=AUTENT+BUTENT+CUTENT+DUTENT+EUTENT+FUTENT+GUTENT+HUTENT+IUTENT+
02     SUTENT
C-
S      IF ((AUTGNT<-1> .LT. 0.0001) .OR. (AUTGYK<-1> .LT. 0.0001))
F     *THEN
C ... AUTGNT    NEWFOUNDLAND     GAS UTIL.               I/O EMPLOYMENT
E 222 AUTGNT=AUTGYK*(MUTGNT/MUTGYK)
C-
F      ELSE
C ... AUTGNT    NEWFOUNDLAND     GAS UTIL.               I/O EMPLOYMENT
E 222 AUTGNT=AUTGYK*(AUTGNT<-1>/(AUTGYK<-1>))*
02     ((MUTGNT/MUTGYK)/(MUTGNT<-1>/MUTGYK<-1>))
C-
F      END IF
S      IF ((BUTGNT<-1> .LT. 0.0001) .OR. (BUTGYK<-1> .LT. 0.0001))
F     *THEN
C ... BUTGNT    P.E.I.           GAS UTIL.               I/O EMPLOYMENT
E 223 BUTGNT=BUTGYK*(MUTGNT/MUTGYK)
C-
F      ELSE
C ... BUTGNT    P.E.I.           GAS UTIL.               I/O EMPLOYMENT
E 223 BUTGNT=BUTGYK*(BUTGNT<-1>/(BUTGYK<-1>))*
02     ((MUTGNT/MUTGYK)/(MUTGNT<-1>/MUTGYK<-1>))
C-
F      END IF
S      IF ((CUTGNT<-1> .LT. 0.0001) .OR. (CUTGYK<-1> .LT. 0.0001))
F     *THEN
C ... CUTGNT    NOVA SCOTIA      GAS UTIL.               I/O EMPLOYMENT
E 224 CUTGNT=CUTGYK*(MUTGNT/MUTGYK)
C-
F      ELSE
C ... CUTGNT    NOVA SCOTIA      GAS UTIL.               I/O EMPLOYMENT
E 224 CUTGNT=CUTGYK*(CUTGNT<-1>/(CUTGYK<-1>))*
02     ((MUTGNT/MUTGYK)/(MUTGNT<-1>/MUTGYK<-1>))
C-
F      END IF
S      IF ((DUTGNT<-1> .LT. 0.0001) .OR. (DUTGYK<-1> .LT. 0.0001))
F     *THEN
C ... DUTGNT    NEW BRUNSWICK    GAS UTIL.               I/O EMPLOYMENT
E 225 DUTGNT=DUTGYK*(MUTGNT/MUTGYK)
C-
F      ELSE
C ... DUTGNT    NEW BRUNSWICK    GAS UTIL.               I/O EMPLOYMENT
E 225 DUTGNT=DUTGYK*(DUTGNT<-1>/(DUTGYK<-1>))*
02     ((MUTGNT/MUTGYK)/(MUTGNT<-1>/MUTGYK<-1>))
C-
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```
F      END IF
S      IF ((EUTGNT<-1> .LT. 0.0001) .OR. (EUTGYK<-1> .LT. 0.0001))
F     *THEN
C ... EUTGNT    QUEBEC          GAS UTIL.              I/O EMPLOYMENT
E 226 EUTGNT=EUTGYK*(MUTGNT/MUTGYK)
C-
F      ELSE
C ... EUTGNT    QUEBEC          GAS UTIL.              I/O EMPLOYMENT
E 226 EUTGNT=EUTGYK*(EUTGNT<-1>/(EUTGYK<-1>))*
02     ((MUTGNT/MUTGYK)/(MUTGNT<-1>/MUTGYK<-1>))
C-
F      END IF
C ... FUTGNT    ONTARIO         GAS UTIL.              I/O EMPLOYMENT
E 227 FUTGNT=1000*FUTGYK*(1/(B+B*1000*(MUTGYK/MUTGNT)))
C- B(01)= -7577.305    [  -0.55] B(02)=  1.292622    [   3.31]
C- RB2=0.50 DW=2.81 S.E.E.=  1983.086     AAPE=  3.45
C- 1971-1981
C-
S      IF ((GUTGNT<-1> .LT. 0.0001) .OR. (GUTGYK<-1> .LT. 0.0001))
F     *THEN
C ... GUTGNT    MANITOBA        GAS UTIL.              I/O EMPLOYMENT
E 228 GUTGNT=GUTGYK*(MUTGNT/MUTGYK)
C-
F      ELSE
C ... GUTGNT    MANITOBA        GAS UTIL.              I/O EMPLOYMENT
E 228 GUTGNT=GUTGYK*(GUTGNT<-1>/(GUTGYK<-1>))*
02     ((MUTGNT/MUTGYK)/(MUTGNT<-1>/MUTGYK<-1>))
C-
F      END IF
S      IF ((HUTGNT<-1> .LT. 0.0001) .OR. (HUTGYK<-1> .LT. 0.0001))
F     *THEN
C ... HUTGNT    SASKATCHEWAN    GAS UTIL.              I/O EMPLOYMENT
E 229 HUTGNT=HUTGYK*(MUTGNT/MUTGYK)
C-
F      ELSE
C ... HUTGNT    SASKATCHEWAN    GAS UTIL.              I/O EMPLOYMENT
E 229 HUTGNT=HUTGYK*(HUTGNT<-1>/(HUTGYK<-1>))*
02     ((MUTGNT/MUTGYK)/(MUTGNT<-1>/MUTGYK<-1>))
C-
F      END IF
S      IF ((IUTGNT<-1> .LT. 0.0001) .OR. (IUTGYK<-1> .LT. 0.0001))
F     *THEN
C ... IUTGNT    ALBERTA         GAS UTIL.              I/O EMPLOYMENT
E 230 IUTGNT=IUTGYK*(MUTGNT/MUTGYK)
C-
F      ELSE
C ... IUTGNT    ALBERTA         GAS UTIL.              I/O EMPLOYMENT
E 230 IUTGNT=IUTGYK*(IUTGNT<-1>/(IUTGYK<-1>))*
02     ((MUTGNT/MUTGYK)/(MUTGNT<-1>/MUTGYK<-1>))
C-
F      END IF
S      IF ((JUTGNT<-1> .LT. 0.0001) .OR. (JUTGYK<-1> .LT. 0.0001))
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F     *THEN
C ... JUTGNT    B.C.              GAS UTIL.              I/O EMPLOYMENT
E 231 JUTGNT=JUTGYK*(MUTGNT/MUTGYK)
C-
F     ELSE
C ... JUTGNT    B.C.              GAS UTIL.              I/O EMPLOYMENT
E 231 JUTGNT=JUTGYK*(JUTGNT<-1>/(JUTGYK<-1>))*
O2    ((MUTGNT/MUTGYK)/(MUTGNT<-1>/MUTGYK<-1>))
C-
F     END IF
S     IF ((TUTGNT<-1> .LT. 0.0001) .OR. (TUTGYK<-1> .LT. 0.0001))
F     *THEN
C ... TUTGNT    TERRITORIES       GAS UTIL.              I/O EMPLOYMENT
E 232 TUTGNT=TUTGYK*(MUTGNT/MUTGYK)
C-
F     ELSE
C ... TUTGNT    TERRITORIES       GAS UTIL.              I/O EMPLOYMENT
E 232 TUTGNT=TUTGYK*(TUTGNT<-1>/(TUTGYK<-1>))*
O2    ((MUTGNT/MUTGYK)/(MUTGNT<-1>/MUTGYK<-1>))
C-
F     END IF
S     I='AUTGNT'-'ATSPNT'+1.0
S     J='ATSPNT'+I-1
S     CALL SHRAD4(S(I),C(I),UTGNET,ADJ,11,E(J),X(1),J,0)
C ... SUTGNT    B.C.+TER.         GAS UTIL.              I/O EMPLOYMENT
E 233 SUTGNT=JUTGNT+TUTGNT
C-
C ... MUTGNT    CANADA            GAS UTIL.              I/O EMPLOYMENT
E 234 MUTGNT=AUTGNT+BUTGNT+CUTGNT+DUTGNT+EUTGNT+FUTGNT+GUTGNT+HUTGNT+IUTGNT+
O2    SUTGNT
C-
C ... AUTONT    NEWFOUNDLAND      WATER+OTHER UTIL.      I/O EMPLOYMENT
E 235 AUTONT=1000*AUTOYK*(1/(B+B*1000*(MUTOYK/MUTONT)))
C- B(01)= -725.4139     [  -0.61] B(02)= 0.1924274     [   3.05]
C- RB2=0.45 DW=2.06 S.E.E.=  512.3107      AAPE= 14.61
C- 1971-1981
C-
C ... BUTONT    P.E.I.            WATER+OTHER UTIL.      I/O EMPLOYMENT
E 236 BUTONT=1000*BUTOYK*(1/(B+B*1000*(MUTOYK/MUTONT)))
C- B(01)= -495.8192     [  -0.13] B(02)= 0.4459536     [   2.25]
C- RB2=0.29 DW=1.51 S.E.E.=  1608.022      AAPE= 16.37
C- 1971-1981
C-
C ... CUTONT    NOVA SCOTIA       WATER+OTHER UTIL.      I/O EMPLOYMENT
E 237 CUTONT=1000*CUTOYK*(1/(B+B*1000*(MUTOYK/MUTONT)))
C- B(01)=  646.9745     [   0.11] B(02)= 0.6214895     [   2.05]
C- RB2=0.24 DW=2.15 S.E.E.=  2465.210      AAPE= 16.07
C- 1971-1981
C-
S     IF ((DUTONT<-1> .LT. 0.0001) .OR. (DUTOYK<-1> .LT. 0.0001))
F     *THEN
C ... DUTONT    NEW BRUNSWICK     WATER+OTHER UTIL.      I/O EMPLOYMENT
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E 238 DUTONT=DUTOYK*(MUTONT/MUTOYK)
C-
F      ELSE
C ... DUTONT    NEW BRUNSWICK   WATER+OTHER UTIL.       I/O EMPLOYMENT
E 238 DUTONT=DUTOYK*(DUTONT<-1>/(DUTOYK<-1>))*
02     ((MUTONT/MUTOYK)/(MUTONT<-1>/MUTOYK<-1>))
C-
F      END IF
S      IF ((EUTONT<-1> .LT. 0.0001) .OR. (EUTOYK<-1> .LT. 0.0001))
F     *THEN
C ... EUTONT    QUEBEC          WATER+OTHER UTIL.       I/O EMPLOYMENT
E 239 EUTONT=EUTOYK*(MUTONT/MUTOYK)
C-
F      ELSE
C ... EUTONT    QUEBEC          WATER+OTHER UTIL.       I/O EMPLOYMENT
E 239 EUTONT=EUTOYK*(EUTONT<-1>/(EUTOYK<-1>))*
02     ((MUTONT/MUTOYK)/(MUTONT<-1>/MUTOYK<-1>))
C-
F      END IF
S      IF ((FUTONT<-1> .LT. 0.0001) .OR. (FUTOYK<-1> .LT. 0.0001))
F     *THEN
C ... FUTONT    ONTARIO         WATER+OTHER UTIL.       I/O EMPLOYMENT
E 240 FUTONT=FUTOYK*(MUTONT/MUTOYK)
C-
F      ELSE
C ... FUTONT    ONTARIO         WATER+OTHER UTIL.       I/O EMPLOYMENT
E 240 FUTONT=FUTOYK*(FUTONT<-1>/(FUTOYK<-1>))*
02     ((MUTONT/MUTOYK)/(MUTONT<-1>/MUTOYK<-1>))
C-
F      END IF
S      IF ((GUTONT<-1> .LT. 0.0001) .OR. (GUTOYK<-1> .LT. 0.0001))
F     *THEN
C ... GUTONT    MANITOBA        WATER+OTHER UTIL.       I/O EMPLOYMENT
E 241 GUTONT=GUTOYK*(MUTONT/MUTOYK)
C-
F      ELSE
C ... GUTONT    MANITOBA        WATER+OTHER UTIL.       I/O EMPLOYMENT
E 241 GUTONT=GUTOYK*(GUTONT<-1>/(GUTOYK<-1>))*
02     ((MUTONT/MUTOYK)/(MUTONT<-1>/MUTOYK<-1>))
C-
F      END IF
C ... HUTONT    SASKATCHEWAN    WATER+OTHER UTIL.       I/O EMPLOYMENT
E 242 HUTONT=1000*HUTOYK*(1/(B+B*1000*(MUTOYK/MUTONT)))
C- B(01)=  2993.864     [   0.93] B(02)= 0.4784087     [   2.81]
C- RB2=0.41 DW=1.46 S.E.E.=  1381.621     AAPE=  8.37
C- 1971-1981
C-
C ... IUTONT    ALBERTA         WATER+OTHER UTIL.       I/O EMPLOYMENT
E 243 IUTONT=1000*IUTOYK*(1/(B+B*1000*(MUTOYK/MUTONT)))
C- B(01)= -7018.406     [  -1.22] B(02)=  1.253399     [   4.13]
C- RB2=0.62 DW=1.57 S.E.E.=  2466.860     AAPE=  9.83
C- 1971-1981
```

```
C-
S     IF ((JUTONT<-1> .LT. 0.0001) .OR. (JUTOYK<-1> .LT. 0.0001))
F    *THEN
C ... JUTONT    B.C.            WATER+OTHER UTIL.       I/O EMPLOYMENT
E 244 JUTONT=JUTOYK*(MUTONT/MUTOYK)
C-
F     ELSE
C ... JUTONT    B.C.            WATER+OTHER UTIL.       I/O EMPLOYMENT
E 244 JUTONT=JUTOYK*(JUTONT<-1>/(JUTOYK<-1>))*
02    ((MUTONT/MUTOYK)/(MUTONT<-1>/MUTOYK<-1>))
C-
F     END IF
S     IF ((TUTONT<-1> .LT. 0.0001) .OR. (TUTOYK<-1> .LT. 0.0001))
F    *THEN
C ... TUTONT    TERRITORIES     WATER+OTHER UTIL.       I/O EMPLOYMENT
E 245 TUTONT=TUTOYK*(MUTONT/MUTOYK)
C-
F     ELSE
C ... TUTONT    TERRITORIES     WATER+OTHER UTIL.       I/O EMPLOYMENT
E 245 TUTONT=TUTOYK*(TUTONT<-1>/(TUTOYK<-1>))*
02    ((MUTONT/MUTOYK)/(MUTONT<-1>/MUTOYK<-1>))
C-
F     END IF
S     I='AUTONT'-'ATSPNT'+1.0
S     J='ATSPNT'+I-1
S     CALL SHRAD4(S(I),C(I),UTONET,ADJ,11,E(J),X(1),J,0)
C ... SUTONT    B.C.+TER.       WATER+OTHER UTIL.       I/O EMPLOYMENT
E 246 SUTONT=JUTONT+TUTONT
C-
C ... MUTONT    CANADA          WATER+OTHER UTIL.       I/O EMPLOYMENT
E 247 MUTONT=AUTONT+BUTONT+CUTONT+DUTONT+EUTONT+FUTONT+GUTONT+HUTONT+IUTONT+
02    SUTONT
C-
C ... ATRWNT    NEWFOUNDLAND    WHOLESALE TRADE         I/O EMPLOYMENT
E 261 ATRWNT=1000*ATRWYK*(1/(B+B*1000*(MTRWYK/MTRWNT)))
C- B(01)=  790.9095    [   0.21] B(02)= 0.5295001    [   1.84]
C- RB2=0.19 DW=0.83 S.E.E.=  604.8049     AAPE=  6.05
C- 1971-1981
C-
C ... BTRWNT    P.E.I.          WHOLESALE TRADE         I/O EMPLOYMENT
E 262 BTRWNT=1000*BTRWYK*(1/(B+B*1000*(MTRWYK/MTRWNT)))
C- B(01)= -2069.438    [  -1.53] B(02)= 0.6605679    [   6.46]
C- RB2=0.80 DW=1.89 S.E.E.=  215.0329     AAPE=  2.34
C- 1971-1981
C-
S     IF ((CTRWNT<-1> .LT. 0.0001) .OR. (CTRWYK<-1> .LT. 0.0001))
F    *THEN
C ... CTRWNT    NOVA SCOTIA     WHOLESALE TRADE         I/O EMPLOYMENT
E 263 CTRWNT=CTRWYK*(MTRWNT/MTRWYK)
C-
F     ELSE
C ... CTRWNT    NOVA SCOTIA     WHOLESALE TRADE         I/O EMPLOYMENT
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E 263 CTRWNT=CTRWYK*(CTRWNT<-1>/(CTRWYK<-1>))*
O2     ((MTRWNT/MTRWYK)/(MTRWNT<-1>/MTRWYK<-1>))
C-
F      END IF
S      IF ((DTRWNT<-1> .LT. 0.0001) .OR. (DTRWYK<-1> .LT. 0.0001))
F     *THEN
C ... DTRWNT    NEW BRUNSWICK   WHOLESALE TRADE        I/O EMPLOYMENT
E 264 DTRWNT=DTRWYK*(MTRWNT/MTRWYK)
C-
F      ELSE
C ... DTRWNT    NEW BRUNSWICK   WHOLESALE TRADE        I/O EMPLOYMENT
E 264 DTRWNT=DTRWYK*(DTRWNT<-1>/(DTRWYK<-1>))*
O2     ((MTRWNT/MTRWYK)/(MTRWNT<-1>/MTRWYK<-1>))
C-
F      END IF
S      IF ((ETRWNT<-1> .LT. 0.0001) .OR. (ETRWYK<-1> .LT. 0.0001))
F     *THEN
C ... ETRWNT    QUEBEC          WHOLESALE TRADE        I/O EMPLOYMENT
E 265 ETRWNT=ETRWYK*(MTRWNT/MTRWYK)
C-
F      ELSE
C ... ETRWNT    QUEBEC          WHOLESALE TRADE        I/O EMPLOYMENT
E 265 ETRWNT=ETRWYK*(ETRWNT<-1>/(ETRWYK<-1>))*
O2     ((MTRWNT/MTRWYK)/(MTRWNT<-1>/MTRWYK<-1>))
C-
F      END IF
S      IF ((FTRWNT<-1> .LT. 0.0001) .OR. (FTRWYK<-1> .LT. 0.0001))
F     *THEN
C ... FTRWNT    ONTARIO         WHOLESALE TRADE        I/O EMPLOYMENT
E 266 FTRWNT=FTRWYK*(MTRWNT/MTRWYK)
C-
F      ELSE
C ... FTRWNT    ONTARIO         WHOLESALE TRADE        I/O EMPLOYMENT
E 266 FTRWNT=FTRWYK*(FTRWNT<-1>/(FTRWYK<-1>))*
O2     ((MTRWNT/MTRWYK)/(MTRWNT<-1>/MTRWYK<-1>))
C-
F      END IF
S      IF ((GTRWNT<-1> .LT. 0.0001) .OR. (GTRWYK<-1> .LT. 0.0001))
F     *THEN
C ... GTRWNT    MANITOBA        WHOLESALE TRADE        I/O EMPLOYMENT
E 267 GTRWNT=GTRWYK*(MTRWNT/MTRWYK)
C-
F      ELSE
C ... GTRWNT    MANITOBA        WHOLESALE TRADE        I/O EMPLOYMENT
E 267 GTRWNT=GTRWYK*(GTRWNT<-1>/(GTRWYK<-1>))*
O2     ((MTRWNT/MTRWYK)/(MTRWNT<-1>/MTRWYK<-1>))
C-
F      END IF
S      IF ((HTRWNT<-1> .LT. 0.0001) .OR. (HTRWYK<-1> .LT. 0.0001))
F     *THEN
C ... HTRWNT    SASKATCHEWAN    WHOLESALE TRADE        I/O EMPLOYMENT
E 268 HTRWNT=HTRWYK*(MTRWNT/MTRWYK)
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```
C-
F      ELSE
C ... HTRWNT    SASKATCHEWAN    WHOLESALE TRADE          I/O EMPLOYMENT
E 268 HTRWNT=HTRWYK*(HTRWNT<-1>/(HTRWYK<-1>))*
02     ((MTRWNT/MTRWYK)/(MTRWNT<-1>/MTRWYK<-1>))
C-
F      END IF
S      IF ((ITRWNT<-1> .LT. 0.0001) .OR. (ITRWYK<-1> .LT. 0.0001))
F     *THEN
C ... ITRWNT    ALBERTA         WHOLESALE TRADE          I/O EMPLOYMENT
E 269 ITRWNT=ITRWYK*(MTRWNT/MTRWYK)
C-
F      ELSE
C ... ITRWNT    ALBERTA         WHOLESALE TRADE          I/O EMPLOYMENT
E 269 ITRWNT=ITRWYK*(ITRWNT<-1>/(ITRWYK<-1>))*
02     ((MTRWNT/MTRWYK)/(MTRWNT<-1>/MTRWYK<-1>))
C-
F      END IF
C ... JTRWNT    B.C.            WHOLESALE TRADE          I/O EMPLOYMENT
E 270 JTRWNT=1000*JTRWYK*(1/(B+B*1000*(MTRWYK/MTRWNT)))
C- B(01)=  2101.235    [   0.45] B(02)= 0.8532987    [   2.44]
C- RB2=0.33 DW=0.86 S.E.E.=  735.9210     AAPE=  4.05
C- 1971-1981
C-
S      IF ((TTRWNT<-1> .LT. 0.0001) .OR. (TTRWYK<-1> .LT. 0.0001))
F     *THEN
C ... TTRWNT    TERRITORIES     WHOLESALE TRADE          I/O EMPLOYMENT
E 271 TTRWNT=TTRWYK*(MTRWNT/MTRWYK)
C-
F      ELSE
C ... TTRWNT    TERRITORIES     WHOLESALE TRADE          I/O EMPLOYMENT
E 271 TTRWNT=TTRWYK*(TTRWNT<-1>/(TTRWYK<-1>))*
02     ((MTRWNT/MTRWYK)/(MTRWNT<-1>/MTRWYK<-1>))
C-
F      END IF
S      I='ATRWNT'-'ATSPNT'+1.0
S      J='ATSPNT'+I-1
S      CALL SHRAD4(S(I),C(I),TRWNET,ADJ,11,E(J),X(1),J,0)
C ... STRWNT    B.C.+TER.       WHOLESALE TRADE          I/O EMPLOYMENT
E 272 STRWNT=JTRWNT+TTRWNT
C-
C ... MTRWNT    CANADA          WHOLESALE TRADE          I/O EMPLOYMENT
E 273 MTRWNT=ATRWNT+BTRWNT+CTRWNT+DTRWNT+ETRWNT+FTRWNT+GTRWNT+HTRWNT+ITRWNT+
02     STRWNT
C-
S      IF ((ATRRNT<-1> .LT. 0.0001) .OR. (ATRRYK<-1> .LT. 0.0001))
F     *THEN
C ... ATRRNT    NEWFOUNDLAND    RETAIL TRADE             I/O EMPLOYMENT
E 274 ATRRNT=ATRRYK*(MTRRNT/MTRRYK)
C-
F      ELSE
C ... ATRRNT    NEWFOUNDLAND    RETAIL TRADE             I/O EMPLOYMENT
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E 274 ATRRNT=ATRRYK*(ATRRNT<-1>/(ATRRYK<-1>))*
02     ((MTRRNT/MTRRYK)/(MTRRNT<-1>/MTRRYK<-1>))
C-
F      END IF
C ... BTRRNT    P.E.I.          RETAIL TRADE          I/O EMPLOYMENT
E 275 BTRRNT=1000*BTRRYK*(1/(B+B*1000*(MTRRYK/MTRRNT)))
C- B(01)= -3461.343     [  -1.20] B(02)=  1.572204     [   3.64]
C- RB2=0.55 DW=0.92 S.E.E.=  376.8386      AAPE=  3.61
C- 1971-1981
C-
C ... CTRRNT    NOVA SCOTIA     RETAIL TRADE          I/O EMPLOYMENT
E 276 CTRRNT=1000*CTRRYK*(1/(B+B*1000*(MTRRYK/MTRRNT)))
C- B(01)= -879.6519     [  -0.54] B(02)=  1.114699     [   4.56]
C- RB2=0.66 DW=1.16 S.E.E.=  213.4328      AAPE=  2.65
C- 1971-1981
C-
C ... DTRRNT    NEW BRUNSWICK   RETAIL TRADE          I/O EMPLOYMENT
E 277 DTRRNT=1000*DTRRYK*(1/(B+B*1000*(MTRRYK/MTRRNT)))
C- B(01)= -4412.518     [  -3.93] B(02)=  1.754640     [  10.42]
C- RB2=0.91 DW=1.19 S.E.E.=  146.9944      AAPE=  1.44
C- 1971-1981
C-
C ... ETRRNT    QUEBEC          RETAIL TRADE          I/O EMPLOYMENT
E 278 ETRRNT=1000*ETRRYK*(1/(B+B*1000*(MTRRYK/MTRRNT)))
C- B(01)=  105.5535     [   0.22] B(02)=  1.026715     [  13.97]
C- RB2=0.95 DW=1.85 S.E.E.=  64.13838      AAPE=  0.71
C- 1971-1981
C-
C ... FTRRNT    ONTARIO         RETAIL TRADE          I/O EMPLOYMENT
E 279 FTRRNT=1000*FTRRYK*(1/(B+B*1000*(MTRRYK/MTRRNT)))
C- B(01)=  1446.725     [   2.15] B(02)= 0.7021154     [   6.95]
C- RB2=0.83 DW=0.93 S.E.E.=  88.17855      AAPE=  1.02
C- 1971-1981
C-
C ... GTRRNT    MANITOBA        RETAIL TRADE          I/O EMPLOYMENT
E 280 GTRRNT=1000*GTRRYK*(1/(B+B*1000*(MTRRYK/MTRRNT)))
C- B(01)= -4090.969     [  -2.01] B(02)=  1.542795     [   5.07]
C- RB2=0.71 DW=0.38 S.E.E.=  265.6338      AAPE=  3.34
C- 1971-1981
C-
C ... HTRRNT    SASKATCHEWAN    RETAIL TRADE          I/O EMPLOYMENT
E 281 HTRRNT=1000*HTRRYK*(1/(B+B*1000*(MTRRYK/MTRRNT)))
C- B(01)= -4192.122     [  -1.66] B(02)=  1.802633     [   4.77]
C- RB2=0.69 DW=0.56 S.E.E.=  329.7601      AAPE=  3.42
C- 1971-1981
C-
C ... ITRRNT    ALBERTA         RETAIL TRADE          I/O EMPLOYMENT
E 282 ITRRNT=1000*ITRRYK*(1/(B+B*1000*(MTRRYK/MTRRNT)))
C- B(01)=  802.6165     [   0.44] B(02)= 0.9804865     [   3.58]
C- RB2=0.54 DW=0.56 S.E.E.=  238.7237      AAPE=  2.43
C- 1971-1981
C-
```


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```
C ... JTRRNT    B.C.            RETAIL TRADE            I/O EMPLOYMENT
E 283 JTRRNT=1000*JTRRYK*(1/(B+B*1000*(MTRRYK/MTRRNT)))
C- B(01)= -490.1659     [  -0.29] B(02)=  1.137063     [   4.50]
C- RB2=0.66 DW=1.14 S.E.E.=  220.5269     AAPE=  2.55
C- 1971-1981
C-
S     IF ((TTRRNT<-1> .LT. 0.0001) .OR. (TTRRYK<-1> .LT. 0.0001))
F    *THEN
C ... TTRRNT    TERRITORIES     RETAIL TRADE            I/O EMPLOYMENT
E 284 TTRRNT=TTRRYK*(MTRRNT/MTRRYK)
C-
F     ELSE
C ... TTRRNT    TERRITORIES     RETAIL TRADE            I/O EMPLOYMENT
E 284 TTRRNT=TTRRYK*(TTRRNT<-1>/(TTRRYK<-1>))*
02    ((MTRRNT/MTRRYK)/(MTRRNT<-1>/MTRRYK<-1>))
C-
F     END IF
S     I='ATRRNT'-'ATSPNT'+1.0
S     J='ATSPNT'+I-1
S     CALL SHRAD4(S(I),C(I),TRRNET,ADJ,11,E(J),X(1),J,0)
C ... STRRNT    B.C.+TER.       RETAIL TRADE            I/O EMPLOYMENT
E 285 STRRNT=JTRRNT+TTRRNT
C-
C ... MTRRNT    CANADA          RETAIL TRADE            I/O EMPLOYMENT
E 286 MTRRNT=ATRRNT+BTRRNT+CTRRNT+DTRRNT+ETRRNT+FTRRNT+GTRRNT+HTRRNT+ITRRNT+
02    STRRNT
C-
S     IF ((AFINNT<-1> .LT. 0.0001) .OR. (AFINYK<-1> .LT. 0.0001))
F    *THEN
C ... AFINNT    NEWFOUNDLAND    FINANCE                 I/O EMPLOYMENT
E 300 AFINNT=AFINYK*(MFINNT/MFINYK)
C-
F     ELSE
C ... AFINNT    NEWFOUNDLAND    FINANCE                 I/O EMPLOYMENT
E 300 AFINNT=AFINYK*(AFINNT<-1>/(AFINYK<-1>))*
02    ((MFINNT/MFINYK)/(MFINNT<-1>/MFINYK<-1>))
C-
F     END IF
S     IF ((BFINNT<-1> .LT. 0.0001) .OR. (BFINYK<-1> .LT. 0.0001))
F    *THEN
C ... BFINNT    P.E.I.          FINANCE                 I/O EMPLOYMENT
E 301 BFINNT=BFINYK*(MFINNT/MFINYK)
C-
F     ELSE
C ... BFINNT    P.E.I.          FINANCE                 I/O EMPLOYMENT
E 301 BFINNT=BFINYK*(BFINNT<-1>/(BFINYK<-1>))*
02    ((MFINNT/MFINYK)/(MFINNT<-1>/MFINYK<-1>))
C-
F     END IF
S     IF ((CFINNT<-1> .LT. 0.0001) .OR. (CFINYK<-1> .LT. 0.0001))
F    *THEN
C ... CFINNT    NOVA SCOTIA     FINANCE                 I/O EMPLOYMENT
```


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```
E 302 CFINNT=CFINYK*(MFINNT/MFINYK)
C-
F      ELSE
C ... CFINNT    NOVA SCOTIA      FINANCE                    I/O EMPLOYMENT
E 302 CFINNT=CFINYK*(CFINNT<-1>/(CFINYK<-1>))*
02     ((MFINNT/MFINYK)/(MFINNT<-1>/MFINYK<-1>))
C-
F      END IF
S      IF ((DFINNT<-1> .LT. 0.0001) .OR. (DFINYK<-1> .LT. 0.0001))
F     *THEN
C ... DFINNT    NEW BRUNSWICK    FINANCE                    I/O EMPLOYMENT
E 303 DFINNT=DFINYK*(MFINNT/MFINYK)
C-
F      ELSE
C ... DFINNT    NEW BRUNSWICK    FINANCE                    I/O EMPLOYMENT
E 303 DFINNT=DFINYK*(DFINNT<-1>/(DFINYK<-1>))*
02     ((MFINNT/MFINYK)/(MFINNT<-1>/MFINYK<-1>))
C-
F      END IF
S      IF ((EFINNT<-1> .LT. 0.0001) .OR. (EFINYK<-1> .LT. 0.0001))
F     *THEN
C ... EFINNT    QUEBEC           FINANCE                    I/O EMPLOYMENT
E 304 EFINNT=EFINYK*(MFINNT/MFINYK)
C-
F      ELSE
C ... EFINNT    QUEBEC           FINANCE                    I/O EMPLOYMENT
E 304 EFINNT=EFINYK*(EFINNT<-1>/(EFINYK<-1>))*
02     ((MFINNT/MFINYK)/(MFINNT<-1>/MFINYK<-1>))
C-
F      END IF
S      IF ((FFINNT<-1> .LT. 0.0001) .OR. (FFINYK<-1> .LT. 0.0001))
F     *THEN
C ... FFINNT    ONTARIO          FINANCE                    I/O EMPLOYMENT
E 305 FFINNT=FFINYK*(MFINNT/MFINYK)
C-
F      ELSE
C ... FFINNT    ONTARIO          FINANCE                    I/O EMPLOYMENT
E 305 FFINNT=FFINYK*(FFINNT<-1>/(FFINYK<-1>))*
02     ((MFINNT/MFINYK)/(MFINNT<-1>/MFINYK<-1>))
C-
F      END IF
S      IF ((GFINNT<-1> .LT. 0.0001) .OR. (GFINYK<-1> .LT. 0.0001))
F     *THEN
C ... GFINNT    MANITOBA         FINANCE                    I/O EMPLOYMENT
E 306 GFINNT=GFINYK*(MFINNT/MFINYK)
C-
F      ELSE
C ... GFINNT    MANITOBA         FINANCE                    I/O EMPLOYMENT
E 306 GFINNT=GFINYK*(GFINNT<-1>/(GFINYK<-1>))*
02     ((MFINNT/MFINYK)/(MFINNT<-1>/MFINYK<-1>))
C-
F      END IF
```


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```
S     IF ((HFINNT<-1> .LT. 0.0001) .OR. (HFINYK<-1> .LT. 0.0001))
F    *THEN
C ... HFINNT    SASKATCHEWAN    FINANCE                  I/O EMPLOYMENT
E 307 HFINNT=HFINYK*(MFINNT/MFINYK)
C-
F     ELSE
C ... HFINNT    SASKATCHEWAN    FINANCE                  I/O EMPLOYMENT
E 307 HFINNT=HFINYK*(HFINNT<-1>/(HFINYK<-1>))*
02    ((MFINNT/MFINYK)/(MFINNT<-1>/MFINYK<-1>))
C-
F     END IF
S     IF ((IFINNT<-1> .LT. 0.0001) .OR. (IFINYK<-1> .LT. 0.0001))
F    *THEN
C ... IFINNT    ALBERTA         FINANCE                  I/O EMPLOYMENT
E 308 IFINNT=IFINYK*(MFINNT/MFINYK)
C-
F     ELSE
C ... IFINNT    ALBERTA         FINANCE                  I/O EMPLOYMENT
E 308 IFINNT=IFINYK*(IFINNT<-1>/(IFINYK<-1>))*
02    ((MFINNT/MFINYK)/(MFINNT<-1>/MFINYK<-1>))
C-
F     END IF
C ... JFINNT    B.C.            FINANCE                  I/O EMPLOYMENT
E 309 JFINNT=1000*JFINYK*(1/(B+B*1000*(MFINYK/MFINNT)))
C- B(01)= -7287.457    [  -0.90] B(02)=  1.440556    [   3.18]
C- RB2=0.48 DW=1.29 S.E.E.=  891.3503     AAPE=  3.52
C- 1971-1981
C-
S     IF ((TFINNT<-1> .LT. 0.0001) .OR. (TFINYK<-1> .LT. 0.0001))
F    *THEN
C ... TFINNT    TERRITORIES     FINANCE                  I/O EMPLOYMENT
E 310 TFINNT=TFINYK*(MFINNT/MFINYK)
C-
F     ELSE
C ... TFINNT    TERRITORIES     FINANCE                  I/O EMPLOYMENT
E 310 TFINNT=TFINYK*(TFINNT<-1>/(TFINYK<-1>))*
02    ((MFINNT/MFINYK)/(MFINNT<-1>/MFINYK<-1>))
C-
F     END IF
S     I='AFINNT'-'ATSPNT'+1.0
S     J='ATSPNT'+I-1
S     CALL SHRAD4(S(I),C(I),FINNET,ADJ,11,E(J),X(1),J,0)
C ... SFINNT    B.C.+TER.       FINANCE                  I/O EMPLOYMENT
E 311 SFINNT=JFINNT+TFINNT
C-
C ... MFINNT    CANADA          FINANCE                  I/O EMPLOYMENT
E 312 MFINNT=AFINNT+BFINNT+CFINNT+DFINNT+EFINNT+FFINNT+GFINNT+HFINNT+IFINNT+
02    SFINNT
C-
S     IF ((ASEDNT<-1> .LT. 0.0001) .OR. (ASEDYK<-1> .LT. 0.0001))
F    *THEN
C ... ASEDNT    NEWFOUNDLAND    EDUCATION SERV.          I/O EMPLOYMENT
```


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```
E 352 ASEDNT=ASEDYK*(MSEDNT/MSEDYK)
C-
F      ELSE
C ... ASEDNT    NEWFOUNDLAND    EDUCATION SERV.        I/O EMPLOYMENT
E 352 ASEDNT=ASEDYK*(ASEDNT<-1>/(ASEDYK<-1>))*
O2     ((MSEDNT/MSEDYK)/(MSEDNT<-1>/MSEDYK<-1>))
C-
F      END IF
S      IF ((BSEDNT<-1> .LT. 0.0001) .OR. (BSEDYK<-1> .LT. 0.0001))
F     *THEN
C ... BSEDNT    P.E.I.          EDUCATION SERV.        I/O EMPLOYMENT
E 353 BSEDNT=BSEDYK*(MSEDNT/MSEDYK)
C-
F      ELSE
C ... BSEDNT    P.E.I.          EDUCATION SERV.        I/O EMPLOYMENT
E 353 BSEDNT=BSEDYK*(BSEDNT<-1>/(BSEDYK<-1>))*
O2     ((MSEDNT/MSEDYK)/(MSEDNT<-1>/MSEDYK<-1>))
C-
F      END IF
C ... CSEDNT    NOVA SCOTIA     EDUCATION SERV.        I/O EMPLOYMENT
E 354 CSEDNT=1000*CSEDYK*(1/(B+B*1000*(MSEDYK/MSEDNT)))
C- B(01)= -265.1284     [  -0.21] B(02)= 0.9598775     [   6.95]
C- RB2=0.83 DW=2.26 S.E.E.=  206.8027     AAPE=  1.76
C- 1971-1981
C-
C ... DSEDNT    NEW BRUNSWICK   EDUCATION SERV.        I/O EMPLOYMENT
E 355 DSEDNT=1000*DSEDYK*(1/(B+B*1000*(MSEDYK/MSEDNT)))
C- B(01)= -3488.887     [  -2.26] B(02)=  1.213470     [   7.04]
C- RB2=0.83 DW=2.66 S.E.E.=  258.1960     AAPE=  2.90
C- 1971-1981
C-
C ... ESEDNT    QUEBEC          EDUCATION SERV.        I/O EMPLOYMENT
E 356 ESEDNT=1000*ESEDYK*(1/(B+B*1000*(MSEDYK/MSEDNT)))
C- B(01)= -1270.750     [  -1.11] B(02)=  1.037828     [   8.13]
C- RB2=0.87 DW=1.41 S.E.E.=  191.3668     AAPE=  1.71
C- 1971-1981
C-
S      IF ((FSEDNT<-1> .LT. 0.0001) .OR. (FSEDYK<-1> .LT. 0.0001))
F     *THEN
C ... FSEDNT    ONTARIO         EDUCATION SERV.        I/O EMPLOYMENT
E 357 FSEDNT=FSEDYK*(MSEDNT/MSEDYK)
C-
F      ELSE
C ... FSEDNT    ONTARIO         EDUCATION SERV.        I/O EMPLOYMENT
E 357 FSEDNT=FSEDYK*(FSEDNT<-1>/(FSEDYK<-1>))*
O2     ((MSEDNT/MSEDYK)/(MSEDNT<-1>/MSEDYK<-1>))
C-
F      END IF
S      IF ((GSEDNT<-1> .LT. 0.0001) .OR. (GSEDYK<-1> .LT. 0.0001))
F     *THEN
C ... GSEDNT    MANITOBA        EDUCATION SERV.        I/O EMPLOYMENT
E 358 GSEDNT=GSEDYK*(MSEDNT/MSEDYK)
```


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```
C-
F      ELSE
C ... GSEDNT    MANITOBA          EDUCATION SERV.          I/O EMPLOYMENT
E 358 GSEDNT=GSEDYK*(GSEDNT<-1>/(GSEDYK<-1>))*
O2     ((MSEDNT/MSEDYK)/(MSEDNT<-1>/MSEDYK<-1>))
C-
F      END IF
C ... HSEDNT    SASKATCHEWAN      EDUCATION SERV.          I/O EMPLOYMENT
E 359 HSEDNT=1000*HSEDYK*(1/(B+B*1000*(MSEDYK/MSEDNT)))
C- B(01)= -2543.183     [  -1.64] B(02)=  1.184258     [   6.85]
C- RB2=0.82 DW=1.88 S.E.E.=  258.8923      AAPE=  2.30
C- 1971-1981
C-
C ... ISEDNT    ALBERTA           EDUCATION SERV.          I/O EMPLOYMENT
E 360 ISEDNT=1000*ISEDYK*(1/(B+B*1000*(MSEDYK/MSEDNT)))
C- B(01)= -286.9031     [  -0.13] B(02)=  1.088057     [   4.49]
C- RB2=0.66 DW=1.82 S.E.E.=  362.7757      AAPE=  2.73
C- 1971-1981
C-
C ... JSEDNT    B.C.              EDUCATION SERV.          I/O EMPLOYMENT
E 361 JSEDNT=1000*JSEDYK*(1/(B+B*1000*(MSEDYK/MSEDNT)))
C- B(01)= -3616.813     [  -1.45] B(02)=  1.392910     [   5.00]
C- RB2=0.71 DW=2.22 S.E.E.=  417.1046      AAPE=  3.49
C- 1971-1981
C-
C ... TSEDNT    TERRITORIES       EDUCATION SERV.          I/O EMPLOYMENT
E 362 TSEDNT=1000*TSEDYK*(1/(B+B*1000*(MSEDYK/MSEDNT)))
C- B(01)=  1477.798     [   0.50] B(02)=  1.299048     [   3.94]
C- RB2=0.59 DW=0.54 S.E.E.=  493.9412      AAPE=  2.69
C- 1971-1981
C-
S      I='ASEDNT'-'ATSPNT'+1.0
S      J='ATSPNT'+I-1
S      CALL SHRAD4(S(I),C(I),SEDNET,ADJ,11,E(J),X(1),J,0)
C ... SSEDNT    B.C.+TER.         EDUCATION SERV.          I/O EMPLOYMENT
E 363 SSEDNT=JSEDNT+TSEDNT
C-
C ... MSEDNT    CANADA            EDUCATION SERV.          I/O EMPLOYMENT
E 364 MSEDNT=ASEDNT+BSEDNT+CSEDNT+DSEDNT+ESEDNT+FSEDNT+GSEDNT+HSEDNT+ISEDNT+
O2     SSEDNT
C-
S      IF ((ASRLNT<-1> .LT. 0.0001) .OR. (ADHOHT<-1> .LT. 0.0001))
F     *THEN
C ... ASRLNT    NEWFOUNDLAND      RELIGOUS SERV.           I/O EMPLOYMENT
E 365 ASRLNT=ADHOHT*(MSRLNT/MDHOHT)
C-
F      ELSE
C ... ASRLNT    NEWFOUNDLAND      RELIGOUS SERV.           I/O EMPLOYMENT
E 365 ASRLNT=ADHOHT*(ASRLNT<-1>/(ADHOHT<-1>))*
O2     ((MSRLNT/MDHOHT)/(MSRLNT<-1>/MDHOHT<-1>))
C-
F      END IF
```


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```
S      IF ((BSRLNT<-1> .LT. 0.0001) .OR. (BDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... BSRLNT     P.E.I.           RELIGOUS SERV.          I/O EMPLOYMENT
E 366 BSRLNT=BDHOHT*(MSRLNT/MDHOHT)
C-
F      ELSE
C ... BSRLNT     P.E.I.           RELIGOUS SERV.          I/O EMPLOYMENT
E 366 BSRLNT=BDHOHT*(BSRLNT<-1>/(BDHOHT<-1>))*
O2     ((MSRLNT/MDHOHT)/(MSRLNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((CSRLNT<-1> .LT. 0.0001) .OR. (CDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... CSRLNT     NOVA SCOTIA      RELIGOUS SERV.          I/O EMPLOYMENT
E 367 CSRLNT=CDHOHT*(MSRLNT/MDHOHT)
C-
F      ELSE
C ... CSRLNT     NOVA SCOTIA      RELIGOUS SERV.          I/O EMPLOYMENT
E 367 CSRLNT=CDHOHT*(CSRLNT<-1>/(CDHOHT<-1>))*
O2     ((MSRLNT/MDHOHT)/(MSRLNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((DSRLNT<-1> .LT. 0.0001) .OR. (DDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... DSRLNT     NEW BRUNSWICK    RELIGOUS SERV.          I/O EMPLOYMENT
E 368 DSRLNT=DDHOHT*(MSRLNT/MDHOHT)
C-
F      ELSE
C ... DSRLNT     NEW BRUNSWICK    RELIGOUS SERV.          I/O EMPLOYMENT
E 368 DSRLNT=DDHOHT*(DSRLNT<-1>/(DDHOHT<-1>))*
O2     ((MSRLNT/MDHOHT)/(MSRLNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((ESRLNT<-1> .LT. 0.0001) .OR. (EDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... ESRLNT     QUEBEC           RELIGOUS SERV.          I/O EMPLOYMENT
E 369 ESRLNT=EDHOHT*(MSRLNT/MDHOHT)
C-
F      ELSE
C ... ESRLNT     QUEBEC           RELIGOUS SERV.          I/O EMPLOYMENT
E 369 ESRLNT=EDHOHT*(ESRLNT<-1>/(EDHOHT<-1>))*
O2     ((MSRLNT/MDHOHT)/(MSRLNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((FSRLNT<-1> .LT. 0.0001) .OR. (FDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... FSRLNT     ONTARIO          RELIGOUS SERV.          I/O EMPLOYMENT
E 370 FSRLNT=FDHOHT*(MSRLNT/MDHOHT)
C-
F      ELSE
C ... FSRLNT     ONTARIO          RELIGOUS SERV.          I/O EMPLOYMENT
E 370 FSRLNT=FDHOHT*(FSRLNT<-1>/(FDHOHT<-1>))*
```


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```
O2     ((MSRLNT/MDHOHT)/(MSRLNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((GSRLNT<-1> .LT. 0.0001) .OR. (GDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... GSRLNT    MANITOBA         RELIGOUS SERV.          I/O EMPLOYMENT
E 371 GSRLNT=GDHOHT*(MSRLNT/MDHOHT)
C-
F      ELSE
C ... GSRLNT    MANITOBA         RELIGOUS SERV.          I/O EMPLOYMENT
E 371 GSRLNT=GDHOHT*(GSRLNT<-1>/(GDHOHT<-1>))*
O2     ((MSRLNT/MDHOHT)/(MSRLNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((HSRLNT<-1> .LT. 0.0001) .OR. (HDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... HSRLNT    SASKATCHEWAN     RELIGOUS SERV.          I/O EMPLOYMENT
E 372 HSRLNT=HDHOHT*(MSRLNT/MDHOHT)
C-
F      ELSE
C ... HSRLNT    SASKATCHEWAN     RELIGOUS SERV.          I/O EMPLOYMENT
E 372 HSRLNT=HDHOHT*(HSRLNT<-1>/(HDHOHT<-1>))*
O2     ((MSRLNT/MDHOHT)/(MSRLNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((ISRLNT<-1> .LT. 0.0001) .OR. (IDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... ISRLNT    ALBERTA          RELIGOUS SERV.          I/O EMPLOYMENT
E 373 ISRLNT=IDHOHT*(MSRLNT/MDHOHT)
C-
F      ELSE
C ... ISRLNT    ALBERTA          RELIGOUS SERV.          I/O EMPLOYMENT
E 373 ISRLNT=IDHOHT*(ISRLNT<-1>/(IDHOHT<-1>))*
O2     ((MSRLNT/MDHOHT)/(MSRLNT<-1>/MDHOHT<-1>))
C-
F      END IF
C ... JSRLNT    B.C.             RELIGOUS SERV.          I/O EMPLOYMENT
E 374 JSRLNT=1000*JDHOHT*(1/(B+B*1000*(MDHOHT/MSRLNT)))
C- B(01)=  16967.60     [    0.18] B(02)=  1.492213     [    1.87]
C- RB2=0.17 DW=1.47 S.E.E.=  26986.76      AAPE= 10.76
C- 1971-1983
C-
S      IF ((TSRLNT<-1> .LT. 0.0001) .OR. (TDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... TSRLNT    TERRITORIES      RELIGOUS SERV.          I/O EMPLOYMENT
E 375 TSRLNT=TDHOHT*(MSRLNT/MDHOHT)
C-
F      ELSE
C ... TSRLNT    TERRITORIES      RELIGOUS SERV.          I/O EMPLOYMENT
E 375 TSRLNT=TDHOHT*(TSRLNT<-1>/(TDHOHT<-1>))*
O2     ((MSRLNT/MDHOHT)/(MSRLNT<-1>/MDHOHT<-1>))
C-
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```
F      END IF
S      I='ASRLNT'-'ATSPNT'+1.0
S      J='ATSPNT'+I-1
S      CALL SHRAD4(S(I),C(I),SRLNET,ADJ,11,E(J),X(I),J,0)
C ... SSRLNT    B.C.+TER.        RELIGOUS SERV.          I/O EMPLOYMENT
E 376 SSRLNT=JSRLNT+TSRLNT
C-
C ... MSRLNT    CANADA           RELIGOUS SERV.          I/O EMPLOYMENT
E 377 MSRLNT=ASRLNT+BSRLNT+CSRLNT+DSRLNT+ESRLNT+FSRLNT+GSRLNT+HSRLNT+ISRLNT+
O2     SSRLNT
C-
S      IF ((ASRRNT<-1> .LT. 0.0001) .OR. (ADHOHT<-1> .LT. 0.0001))
F     *THEN
C ... ASRRNT    NEWFOUNDLAND     RECREATION              I/O EMPLOYMENT
E 378 ASRRNT=ADHOHT*(MSRRNT/MDHOHT)
C-
F      ELSE
C ... ASRRNT    NEWFOUNDLAND     RECREATION              I/O EMPLOYMENT
E 378 ASRRNT=ADHOHT*(ASRRNT<-1>/(ADHOHT<-1>))*
O2     ((MSRRNT/MDHOHT)/(MSRRNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((BSRRNT<-1> .LT. 0.0001) .OR. (BDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... BSRRNT    P.E.I.           RECREATION              I/O EMPLOYMENT
E 379 BSRRNT=BDHOHT*(MSRRNT/MDHOHT)
C-
F      ELSE
C ... BSRRNT    P.E.I.           RECREATION              I/O EMPLOYMENT
E 379 BSRRNT=BDHOHT*(BSRRNT<-1>/(BDHOHT<-1>))*
O2     ((MSRRNT/MDHOHT)/(MSRRNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((CSRRNT<-1> .LT. 0.0001) .OR. (CDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... CSRRNT    NOVA SCOTIA      RECREATION              I/O EMPLOYMENT
E 380 CSRRNT=CDHOHT*(MSRRNT/MDHOHT)
C-
F      ELSE
C ... CSRRNT    NOVA SCOTIA      RECREATION              I/O EMPLOYMENT
E 380 CSRRNT=CDHOHT*(CSRRNT<-1>/(CDHOHT<-1>))*
O2     ((MSRRNT/MDHOHT)/(MSRRNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((DSRRNT<-1> .LT. 0.0001) .OR. (DDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... DSRRNT    NEW BRUNSWICK    RECREATION              I/O EMPLOYMENT
E 381 DSRRNT=DDHOHT*(MSRRNT/MDHOHT)
C-
F      ELSE
C ... DSRRNT    NEW BRUNSWICK    RECREATION              I/O EMPLOYMENT
E 381 DSRRNT=DDHOHT*(DSRRNT<-1>/(DDHOHT<-1>))*
```


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```
O2     ((MSRRNT/MDHOHT)/(MSRRNT<-1>/MDHOHT<-1>))
C-
F      END IF
C ... ESRRNT    QUEBEC          RECREATION              I/O EMPLOYMENT
E 382 ESRRNT=1000*EDHOHT*(1/(B+B*1000*(MDHOHT/MSRRNT)))
C- B(01)= -182.5024     [  -0.01] B(02)=  1.113900     [   5.01]
C- RB2=0.71 DW=1.77 S.E.E.=  6193.460     AAPE=  5.04
C- 1971-1981
C-
C ... FSRRNT    ONTARIO         RECREATION              I/O EMPLOYMENT
E 383 FSRRNT=1000*FDHOHT*(1/(B+B*1000*(MDHOHT/MSRRNT)))
C- B(01)= -15834.25     [  -1.54] B(02)=  1.090175     [   7.82]
C- RB2=0.86 DW=2.10 S.E.E.=  3881.125     AAPE=  3.66
C- 1971-1981
C-
S      IF ((GSRRNT<-1> .LT. 0.0001) .OR. (GDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... GSRRNT    MANITOBA        RECREATION              I/O EMPLOYMENT
E 384 GSRRNT=GDHOHT*(MSRRNT/MDHOHT)
C-
F      ELSE
C ... GSRRNT    MANITOBA        RECREATION              I/O EMPLOYMENT
E 384 GSRRNT=GDHOHT*(GSRRNT<-1>/(GDHOHT<-1>))*
O2     ((MSRRNT/MDHOHT)/(MSRRNT<-1>/MDHOHT<-1>))
C-
F      END IF
C ... HSRRNT    SASKATCHEWAN    RECREATION              I/O EMPLOYMENT
E 385 HSRRNT=1000*HDHOHT*(1/(B+B*1000*(MDHOHT/MSRRNT)))
C- B(01)=  21075.45     [   0.63] B(02)=  1.098276     [   2.40]
C- RB2=0.32 DW=1.49 S.E.E.=  12725.36     AAPE= 10.25
C- 1971-1981
C-
S      IF ((ISRRNT<-1> .LT. 0.0001) .OR. (IDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... ISRRNT    ALBERTA         RECREATION              I/O EMPLOYMENT
E 386 ISRRNT=IDHOHT*(MSRRNT/MDHOHT)
C-
F      ELSE
C ... ISRRNT    ALBERTA         RECREATION              I/O EMPLOYMENT
E 386 ISRRNT=IDHOHT*(ISRRNT<-1>/(IDHOHT<-1>))*
O2     ((MSRRNT/MDHOHT)/(MSRRNT<-1>/MDHOHT<-1>))
C-
F      END IF
C ... JSRRNT    B.C.            RECREATION              I/O EMPLOYMENT
E 387 JSRRNT=1000*JDHOHT*(1/(B+B*1000*(MDHOHT/MSRRNT)))
C- B(01)= -3057.826     [  -0.15] B(02)=  1.051768     [   3.87]
C- RB2=0.58 DW=1.92 S.E.E.=  7567.590     AAPE=  8.12
C- 1971-1981
C-
S      IF ((TSRRNT<-1> .LT. 0.0001) .OR. (TDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... TSRRNT    TERRITORIES     RECREATION              I/O EMPLOYMENT
```


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```
E 388 TSRRNT=TDHOHT*(MSRRNT/MDHOHT)
C-
F     ELSE
C ... TSRRNT    TERRITORIES     RECREATION              I/O EMPLOYMENT
E 388 TSRRNT=TDHOHT*(TSRRNT<-1>/(TDHOHT<-1>))*
O2    ((MSRRNT/MDHOHT)/(MSRRNT<-1>/MDHOHT<-1>))
C-
F     END IF
S     I='ASRRNT'-'ATSPNT'+1.0
S     J='ATSPNT'+I-1
S     CALL SHRAD4(S(I),C(I),SRRNET,ADJ,11,E(J),X(1),J,0)
C ... SSRRNT    B.C.+TER.       RECREATION              I/O EMPLOYMENT
E 389 SSRRNT=JSRRNT+TSRRNT
C-
C ... MSRRNT    CANADA          RECREATION              I/O EMPLOYMENT
E 390 MSRRNT=ASRRNT+BSRRNT+CSRRNT+DSRRNT+ESRRNT+FSRRNT+GSRRNT+HSRRNT+ISRRNT+
O2    SSRRNT
C-
S     IF ((ASVPNT<-1> .LT. 0.0001) .OR. (ADHOHT<-1> .LT. 0.0001))
F    *THEN
C ... ASVPNT    NEWFOUNDLAND    PERSONAL                I/O EMPLOYMENT
E 391 ASVPNT=ADHOHT*(MSVPNT/MDHOHT)
C-
F     ELSE
C ... ASVPNT    NEWFOUNDLAND    PERSONAL                I/O EMPLOYMENT
E 391 ASVPNT=ADHOHT*(ASVPNT<-1>/(ADHOHT<-1>))*
O2    ((MSVPNT/MDHOHT)/(MSVPNT<-1>/MDHOHT<-1>))
C-
F     END IF
S     IF ((BSVPNT<-1> .LT. 0.0001) .OR. (BDHOHT<-1> .LT. 0.0001))
F    *THEN
C ... BSVPNT    P.E.I.          PERSONAL                I/O EMPLOYMENT
E 392 BSVPNT=BDHOHT*(MSVPNT/MDHOHT)
C-
F     ELSE
C ... BSVPNT    P.E.I.          PERSONAL                I/O EMPLOYMENT
E 392 BSVPNT=BDHOHT*(BSVPNT<-1>/(BDHOHT<-1>))*
O2    ((MSVPNT/MDHOHT)/(MSVPNT<-1>/MDHOHT<-1>))
C-
F     END IF
S     IF ((CSVPNT<-1> .LT. 0.0001) .OR. (CDHOHT<-1> .LT. 0.0001))
F    *THEN
C ... CSVPNT    NOVA SCOTIA     PERSONAL                I/O EMPLOYMENT
E 393 CSVPNT=CDHOHT*(MSVPNT/MDHOHT)
C-
F     ELSE
C ... CSVPNT    NOVA SCOTIA     PERSONAL                I/O EMPLOYMENT
E 393 CSVPNT=CDHOHT*(CSVPNT<-1>/(CDHOHT<-1>))*
O2    ((MSVPNT/MDHOHT)/(MSVPNT<-1>/MDHOHT<-1>))
C-
F     END IF
S     IF ((DSVPNT<-1> .LT. 0.0001) .OR. (DDHOHT<-1> .LT. 0.0001))
```


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```
F     *THEN
C ... DSVPNT     NEW BRUNSWICK    PERSONAL                  I/O EMPLOYMENT
E 394 DSVPNT=DDHOHT*(MSVPNT/MDHOHT)
C-
F     ELSE
C ... DSVPNT     NEW BRUNSWICK    PERSONAL                  I/O EMPLOYMENT
E 394 DSVPNT=DDHOHT*(DSVPNT<-1>/(DDHOHT<-1>))*
O2    ((MSVPNT/MDHOHT)/(MSVPNT<-1>/MDHOHT<-1>))
C-
F     END IF
S     IF ((ESVPNT<-1> .LT. 0.0001) .OR. (EDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... ESVPNT     QUEBEC           PERSONAL                  I/O EMPLOYMENT
E 395 ESVPNT=EDHOHT*(MSVPNT/MDHOHT)
C-
F     ELSE
C ... ESVPNT     QUEBEC           PERSONAL                  I/O EMPLOYMENT
E 395 ESVPNT=EDHOHT*(ESVPNT<-1>/(EDHOHT<-1>))*
O2    ((MSVPNT/MDHOHT)/(MSVPNT<-1>/MDHOHT<-1>))
C-
F     END IF
S     IF ((FSVPNT<-1> .LT. 0.0001) .OR. (FDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... FSVPNT     ONTARIO          PERSONAL                  I/O EMPLOYMENT
E 396 FSVPNT=FDHOHT*(MSVPNT/MDHOHT)
C-
F     ELSE
C ... FSVPNT     ONTARIO          PERSONAL                  I/O EMPLOYMENT
E 396 FSVPNT=FDHOHT*(FSVPNT<-1>/(FDHOHT<-1>))*
O2    ((MSVPNT/MDHOHT)/(MSVPNT<-1>/MDHOHT<-1>))
C-
F     END IF
S     IF ((GSVPNT<-1> .LT. 0.0001) .OR. (GDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... GSVPNT     MANITOBA         PERSONAL                  I/O EMPLOYMENT
E 397 GSVPNT=GDHOHT*(MSVPNT/MDHOHT)
C-
F     ELSE
C ... GSVPNT     MANITOBA         PERSONAL                  I/O EMPLOYMENT
E 397 GSVPNT=GDHOHT*(GSVPNT<-1>/(GDHOHT<-1>))*
O2    ((MSVPNT/MDHOHT)/(MSVPNT<-1>/MDHOHT<-1>))
C-
F     END IF
S     IF ((HSVPNT<-1> .LT. 0.0001) .OR. (HDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... HSVPNT     SASKATCHEWAN     PERSONAL                  I/O EMPLOYMENT
E 398 HSVPNT=HDHOHT*(MSVPNT/MDHOHT)
C-
F     ELSE
C ... HSVPNT     SASKATCHEWAN     PERSONAL                  I/O EMPLOYMENT
E 398 HSVPNT=HDHOHT*(HSVPNT<-1>/(HDHOHT<-1>))*
O2    ((MSVPNT/MDHOHT)/(MSVPNT<-1>/MDHOHT<-1>))
```


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```
C-
F      END IF
S      IF ((ISVPNT<-1> .LT. 0.0001) .OR. (IDHOHT<-1> .LT. 0.0001))
F     *THEN
C ...  ISVPNT     ALBERTA          PERSONAL                 I/O EMPLOYMENT
E 399  ISVPNT=IDHOHT*(MSVPNT/MDHOHT)
C-
F      ELSE
C ...  ISVPNT     ALBERTA          PERSONAL                 I/O EMPLOYMENT
E 399  ISVPNT=IDHOHT*(ISVPNT<-1>/(IDHOHT<-1>))*
02     ((MSVPNT/MDHOHT)/(MSVPNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((JSVPNT<-1> .LT. 0.0001) .OR. (JDHOHT<-1> .LT. 0.0001))
F     *THEN
C ...  JSVPNT     B.C.             PERSONAL                 I/O EMPLOYMENT
E 400  JSVPNT=JDHOHT*(MSVPNT/MDHOHT)
C-
F      ELSE
C ...  JSVPNT     B.C.             PERSONAL                 I/O EMPLOYMENT
E 400  JSVPNT=JDHOHT*(JSVPNT<-1>/(JDHOHT<-1>))*
02     ((MSVPNT/MDHOHT)/(MSVPNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((TSVPNT<-1> .LT. 0.0001) .OR. (TDHOHT<-1> .LT. 0.0001))
F     *THEN
C ...  TSVPNT     TERRITORIES      PERSONAL                 I/O EMPLOYMENT
E 401  TSVPNT=TDHOHT*(MSVPNT/MDHOHT)
C-
F      ELSE
C ...  TSVPNT     TERRITORIES      PERSONAL                 I/O EMPLOYMENT
E 401  TSVPNT=TDHOHT*(TSVPNT<-1>/(TDHOHT<-1>))*
02     ((MSVPNT/MDHOHT)/(MSVPNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      I='ASVPNT'-'ATSPNT'+1.0
S      J='ATSPNT'+I-1
S      CALL SHRAD4(S(I),C(I),SVPNET,ADJ,11,E(J),X(1),J,0)
C ...  SSVPNT     B.C.+TER.        PERSONAL                 I/O EMPLOYMENT
E 402  SSVPNT=JSVPNT+TSVPNT
C-
C ...  MSVPNT     CANADA           PERSONAL                 I/O EMPLOYMENT
E 403  MSVPNT=ASVPNT+BSVPNT+CSVPNT+DSVPNT+ESVPNT+FSVPNT+GSVPNT+HSVPNT+ISVPNT+
02     SSVPNT
C-
S      IF ((ASPHNT<-1> .LT. 0.0001) .OR. (ADHOHT<-1> .LT. 0.0001))
F     *THEN
C ...  ASPHNT     NEWFOUNDLAND     PHYSICIANS               I/O EMPLOYMENT
E 417  ASPHNT=ADHOHT*(MSPHNT/MDHOHT)
C-
F      ELSE
C ...  ASPHNT     NEWFOUNDLAND     PHYSICIANS               I/O EMPLOYMENT
```


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```
E 417 ASPHNT=ADHOHT*(ASPHNT<-1>/(ADHOHT<-1>))*
02     ((MSPHNT/MDHOHT)/(MSPHNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((BSPHNT<-1> .LT. 0.0001) .OR. (BDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... BSPHNT    P.E.I.          PHYSICIANS              I/O EMPLOYMENT
E 418 BSPHNT=BDHOHT*(MSPHNT/MDHOHT)
C-
F      ELSE
C ... BSPHNT    P.E.I.          PHYSICIANS              I/O EMPLOYMENT
E 418 BSPHNT=BDHOHT*(BSPHNT<-1>/(BDHOHT<-1>))*
02     ((MSPHNT/MDHOHT)/(MSPHNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((CSPHNT<-1> .LT. 0.0001) .OR. (CDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... CSPHNT    NOVA SCOTIA     PHYSICIANS              I/O EMPLOYMENT
E 419 CSPHNT=CDHOHT*(MSPHNT/MDHOHT)
C-
F      ELSE
C ... CSPHNT    NOVA SCOTIA     PHYSICIANS              I/O EMPLOYMENT
E 419 CSPHNT=CDHOHT*(CSPHNT<-1>/(CDHOHT<-1>))*
02     ((MSPHNT/MDHOHT)/(MSPHNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((DSPHNT<-1> .LT. 0.0001) .OR. (DDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... DSPHNT    NEW BRUNSWICK   PHYSICIANS              I/O EMPLOYMENT
E 420 DSPHNT=DDHOHT*(MSPHNT/MDHOHT)
C-
F      ELSE
C ... DSPHNT    NEW BRUNSWICK   PHYSICIANS              I/O EMPLOYMENT
E 420 DSPHNT=DDHOHT*(DSPHNT<-1>/(DDHOHT<-1>))*
02     ((MSPHNT/MDHOHT)/(MSPHNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((ESPHNT<-1> .LT. 0.0001) .OR. (EDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... ESPHNT    QUEBEC          PHYSICIANS              I/O EMPLOYMENT
E 421 ESPHNT=EDHOHT*(MSPHNT/MDHOHT)
C-
F      ELSE
C ... ESPHNT    QUEBEC          PHYSICIANS              I/O EMPLOYMENT
E 421 ESPHNT=EDHOHT*(ESPHNT<-1>/(EDHOHT<-1>))*
02     ((MSPHNT/MDHOHT)/(MSPHNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((FSPHNT<-1> .LT. 0.0001) .OR. (FDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... FSPHNT    ONTARIO         PHYSICIANS              I/O EMPLOYMENT
E 422 FSPHNT=FDHOHT*(MSPHNT/MDHOHT)
```


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```
C-
F      ELSE
C ... FSPHNT    ONTARIO          PHYSICIANS              I/O EMPLOYMENT
E 422 FSPHNT=FDHOHT*(FSPHNT<-1>/(FDHOHT<-1>))*
02     ((MSPHNT/MDHOHT)/(MSPHNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((GSPHNT<-1> .LT. 0.0001) .OR. (GDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... GSPHNT    MANITOBA         PHYSICIANS              I/O EMPLOYMENT
E 423 GSPHNT=GDHOHT*(MSPHNT/MDHOHT)
C-
F      ELSE
C ... GSPHNT    MANITOBA         PHYSICIANS              I/O EMPLOYMENT
E 423 GSPHNT=GDHOHT*(GSPHNT<-1>/(GDHOHT<-1>))*
02     ((MSPHNT/MDHOHT)/(MSPHNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((HSPHNT<-1> .LT. 0.0001) .OR. (HDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... HSPHNT    SASKATCHEWAN     PHYSICIANS              I/O EMPLOYMENT
E 424 HSPHNT=HDHOHT*(MSPHNT/MDHOHT)
C-
F      ELSE
C ... HSPHNT    SASKATCHEWAN     PHYSICIANS              I/O EMPLOYMENT
E 424 HSPHNT=HDHOHT*(HSPHNT<-1>/(HDHOHT<-1>))*
02     ((MSPHNT/MDHOHT)/(MSPHNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((ISPHNT<-1> .LT. 0.0001) .OR. (IDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... ISPHNT    ALBERTA          PHYSICIANS              I/O EMPLOYMENT
E 425 ISPHNT=IDHOHT*(MSPHNT/MDHOHT)
C-
F      ELSE
C ... ISPHNT    ALBERTA          PHYSICIANS              I/O EMPLOYMENT
E 425 ISPHNT=IDHOHT*(ISPHNT<-1>/(IDHOHT<-1>))*
02     ((MSPHNT/MDHOHT)/(MSPHNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((JSPHNT<-1> .LT. 0.0001) .OR. (JDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... JSPHNT    B.C.             PHYSICIANS              I/O EMPLOYMENT
E 426 JSPHNT=JDHOHT*(MSPHNT/MDHOHT)
C-
F      ELSE
C ... JSPHNT    B.C.             PHYSICIANS              I/O EMPLOYMENT
E 426 JSPHNT=JDHOHT*(JSPHNT<-1>/(JDHOHT<-1>))*
02     ((MSPHNT/MDHOHT)/(MSPHNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((TSPHNT<-1> .LT. 0.0001) .OR. (TDHOHT<-1> .LT. 0.0001))
```


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```
F     *THEN
C ... TSPHNT     TERRITORIES      PHYSICIANS                I/O EMPLOYMENT
E 427 TSPHNT=TDHOHT*(MSPHNT/MDHOHT)
C-
F     ELSE
C ... TSPHNT     TERRITORIES      PHYSICIANS                I/O EMPLOYMENT
E 427 TSPHNT=TDHOHT*(TSPHNT<-1>/(TDHOHT<-1>))*
02    ((MSPHNT/MDHOHT)/(MSPHNT<-1>/MDHOHT<-1>))
C-
F     END IF
S     I='ASPHNT'-'ATSPNT'+1.0
S     J='ATSPNT'+I-1
S     CALL SHRAD4(S(I),C(I),SPHNET,ADJ,11,E(J),X(1),J,0)
C ... SSPHNT     B.C.+TER.        PHYSICIANS                I/O EMPLOYMENT
E 428 SSPHNT=JSPHNT+TSPHNT
C-
C ... MSPHNT     CANADA           PHYSICIANS                I/O EMPLOYMENT
E 429 MSPHNT=ASPHNT+BSPHNT+CSPHNT+DSPHNT+ESPHNT+FSPHNT+GSPHNT+HSPHNT+ISPHNT+
02    SSPHNT
C-
C ... ASHSNT     NEWFOUNDLAND     HOSPITAL                  I/O EMPLOYMENT
E 430 ASHSNT=1000*ADHOHT*(1/(B+B*1000*(MDHOHT/MSHSNT)))
C- B(01)= -3263.451     [  -0.52] B(02)=  1.486257     [   3.08]
C- RB2=0.46 DW=1.24 S.E.E.=  631.6082     AAPE=  2.86
C- 1971-1981
C-
S     IF ((BSHSNT<-1> .LT. 0.0001) .OR. (BDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... BSHSNT     P.E.I.           HOSPITAL                  I/O EMPLOYMENT
E 431 BSHSNT=BDHOHT*(MSHSNT/MDHOHT)
C-
F     ELSE
C ... BSHSNT     P.E.I.           HOSPITAL                  I/O EMPLOYMENT
E 431 BSHSNT=BDHOHT*(BSHSNT<-1>/(BDHOHT<-1>))*
02    ((MSHSNT/MDHOHT)/(MSHSNT<-1>/MDHOHT<-1>))
C-
F     END IF
S     IF ((CSHSNT<-1> .LT. 0.0001) .OR. (CDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... CSHSNT     NOVA SCOTIA      HOSPITAL                  I/O EMPLOYMENT
E 432 CSHSNT=CDHOHT*(MSHSNT/MDHOHT)
C-
F     ELSE
C ... CSHSNT     NOVA SCOTIA      HOSPITAL                  I/O EMPLOYMENT
E 432 CSHSNT=CDHOHT*(CSHSNT<-1>/(CDHOHT<-1>))*
02    ((MSHSNT/MDHOHT)/(MSHSNT<-1>/MDHOHT<-1>))
C-
F     END IF
S     IF ((DSHSNT<-1> .LT. 0.0001) .OR. (DDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... DSHSNT     NEW BRUNSWICK    HOSPITAL                  I/O EMPLOYMENT
E 433 DSHSNT=DDHOHT*(MSHSNT/MDHOHT)
```


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```
C-
F      ELSE
C ... DSHSNT    NEW BRUNSWICK   HOSPITAL                  I/O EMPLOYMENT
E 433 DSHSNT=DDHOHT*(DSHSNT<-1>/(DDHOHT<-1>))*
O2     ((MSHSNT/MDHOHT)/(MSHSNT<-1>/MDHOHT<-1>))
C-
F      END IF
C ... ESHSNT    QUEBEC          HOSPITAL                  I/O EMPLOYMENT
E 434 ESHSNT=1000*EDHOHT*(1/(B+B*1000*(MDHOHT/MSHSNT)))
C- B(01)= -328.8054     [  -0.11] B(02)= 0.9630798     [   4.14]
C- RB2=0.62 DW=2.29 S.E.E.=  304.1691     AAPE=  1.86
C- 1971-1981
C-
S      IF ((FSHSNT<-1> .LT. 0.0001) .OR. (FDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... FSHSNT    ONTARIO         HOSPITAL                  I/O EMPLOYMENT
E 435 FSHSNT=FDHOHT*(MSHSNT/MDHOHT)
C-
F      ELSE
C ... FSHSNT    ONTARIO         HOSPITAL                  I/O EMPLOYMENT
E 435 FSHSNT=FDHOHT*(FSHSNT<-1>/(FDHOHT<-1>))*
O2     ((MSHSNT/MDHOHT)/(MSHSNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((GSHSNT<-1> .LT. 0.0001) .OR. (GDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... GSHSNT    MANITOBA        HOSPITAL                  I/O EMPLOYMENT
E 436 GSHSNT=GDHOHT*(MSHSNT/MDHOHT)
C-
F      ELSE
C ... GSHSNT    MANITOBA        HOSPITAL                  I/O EMPLOYMENT
E 436 GSHSNT=GDHOHT*(GSHSNT<-1>/(GDHOHT<-1>))*
O2     ((MSHSNT/MDHOHT)/(MSHSNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((HSHSNT<-1> .LT. 0.0001) .OR. (HDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... HSHSNT    SASKATCHEWAN    HOSPITAL                  I/O EMPLOYMENT
E 437 HSHSNT=HDHOHT*(MSHSNT/MDHOHT)
C-
F      ELSE
C ... HSHSNT    SASKATCHEWAN    HOSPITAL                  I/O EMPLOYMENT
E 437 HSHSNT=HDHOHT*(HSHSNT<-1>/(HDHOHT<-1>))*
O2     ((MSHSNT/MDHOHT)/(MSHSNT<-1>/MDHOHT<-1>))
C-
F      END IF
C ... ISHSNT    ALBERTA         HOSPITAL                  I/O EMPLOYMENT
E 438 ISHSNT=1000*IDHOHT*(1/(B+B*1000*(MDHOHT/MSHSNT)))
C- B(01)= -2658.941     [  -0.49] B(02)=  1.193010     [   2.80]
C- RB2=0.41 DW=2.59 S.E.E.=  556.6371     AAPE=  3.13
C- 1971-1981
C-
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```
S      IF ((JSHSNT<-1> .LT. 0.0001) .OR. (JDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... JSHSNT    B.C.            HOSPITAL                I/O EMPLOYMENT
E 439 JSHSNT=JDHOHT*(MSHSNT/MDHOHT)
C-
F      ELSE
C ... JSHSNT    B.C.            HOSPITAL                I/O EMPLOYMENT.
E 439 JSHSNT=JDHOHT*(JSHSNT<-1>/(JDHOHT<-1>))*
02     ((MSHSNT/MDHOHT)/(MSHSNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      IF ((TSHSNT<-1> .LT. 0.0001) .OR. (TDHOHT<-1> .LT. 0.0001))
F     *THEN
C ... TSHSNT    TERRITORIES     HOSPITAL                I/O EMPLOYMENT
E 440 TSHSNT=TDHOHT*(MSHSNT/MDHOHT)
C-
F      ELSE
C ... TSHSNT    TERRITORIES     HOSPITAL                I/O EMPLOYMENT
E 440 TSHSNT=TDHOHT*(TSHSNT<-1>/(TDHOHT<-1>))*
02     ((MSHSNT/MDHOHT)/(MSHSNT<-1>/MDHOHT<-1>))
C-
F      END IF
S      I='ASHSNT'-'ATSPNT'+1.0
S      J='ATSPNT'+I-1
S      CALL SHRAD4(S(I),C(I),SHSNET,ADJ,11,E(J),X(1),J,0)
C ... SSHSNT    B.C.+TER.       HOSPITAL                I/O EMPLOYMENT
E 441 SSHSNT=JSHSNT+TSHSNT
C-
C ... MSHSNT    CANADA          HOSPITAL                I/O EMPLOYMENT
E 442 MSHSNT=ASHSNT+BSHSNT+CSHSNT+DSHSNT+ESHSNT+FSHSNT+GSHSNT+HSHSNT+ISHSNT+
02     SSHSNT
C-
C ... ASHONT    NEWFOUNDLAND    ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 456 ASHONT=1000*ASHOYK*(1/(B+B*1000*(MSHOYK/MSHONT)))
C- B(01)=  1711.457     [   0.54] B(02)= 0.7766699     [   1.71]
C- RB2=0.19 DW=1.33 S.E.E.=  547.5870     AAPE=  5.70
C- 1973-1981
C-
S      IF ((BSHONT<-1> .LT. 0.0001) .OR. (BSHOYK<-1> .LT. 0.0001))
F     *THEN
C ... BSHONT    P.E.I.          ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 457 BSHONT=BSHOYK*(MSHONT/MSHOYK)
C-
F      ELSE
C ... BSHONT    P.E.I.          ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 457 BSHONT=BSHOYK*(BSHONT<-1>/(BSHOYK<-1>))*
02     ((MSHONT/MSHOYK)/(MSHONT<-1>/MSHOYK<-1>))
C-
F      END IF
S      IF ((CSHONT<-1> .LT. 0.0001) .OR. (CSHOYK<-1> .LT. 0.0001))
F     *THEN
C ... CSHONT    NOVA SCOTIA     ACCOM+FOOD SERV.        I/O EMPLOYMENT
```


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```
E 458 CSHONT=CSHOYK*(MSHONT/MSHOYK)
C-
F      ELSE
C ... CSHONT    NOVA SCOTIA      ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 458 CSHONT=CSHOYK*(CSHONT<-1>/(CSHOYK<-1>))*
02     ((MSHONT/MSHOYK)/(MSHONT<-1>/MSHOYK<-1>))
C-
F      END IF
C ... DSHONT    NEW BRUNSWICK    ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 459 DSHONT=1000*DSHOYK*(1/(B+B*1000*(MSHOYK/MSHONT)))
C- B(01)= -176.4078     [  -0.08] B(02)= 0.8247309     [   2.54]
C- RB2=0.41 DW=1.91 S.E.E.=  390.8798      AAPE=  4.97
C- 1973-1981
C-
S      IF ((ESHONT<-1> .LT. 0.0001) .OR. (ESHOYK<-1> .LT. 0.0001))
F     *THEN
C ... ESHONT    QUEBEC           ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 460 ESHONT=ESHOYK*(MSHONT/MSHOYK)
C-
F      ELSE
C ... ESHONT    QUEBEC           ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 460 ESHONT=ESHOYK*(ESHONT<-1>/(ESHOYK<-1>))*
02     ((MSHONT/MSHOYK)/(MSHONT<-1>/MSHOYK<-1>))
C-
F      END IF
C ... FSHONT    ONTARIO          ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 461 FSHONT=1000*FSHOYK*(1/(B+B*1000*(MSHOYK/MSHONT)))
C- B(01)=  119.6383     [   0.07] B(02)= 0.9521904     [   3.71]
C- RB2=0.61 DW=1.58 S.E.E.=  309.5728      AAPE=  3.43
C- 1973-1981
C-
S      IF ((GSHONT<-1> .LT. 0.0001) .OR. (GSHOYK<-1> .LT. 0.0001))
F     *THEN
C ... GSHONT    MANITOBA         ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 462 GSHONT=GSHOYK*(MSHONT/MSHOYK)
C-
F      ELSE
C ... GSHONT    MANITOBA         ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 462 GSHONT=GSHOYK*(GSHONT<-1>/(GSHOYK<-1>))*
02     ((MSHONT/MSHOYK)/(MSHONT<-1>/MSHOYK<-1>))
C-
F      END IF
S      IF ((HSHONT<-1> .LT. 0.0001) .OR. (HSHOYK<-1> .LT. 0.0001))
F     *THEN
C ... HSHONT    SASKATCHEWAN     ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 463 HSHONT=HSHOYK*(MSHONT/MSHOYK)
C-
F      ELSE
C ... HSHONT    SASKATCHEWAN     ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 463 HSHONT=HSHOYK*(HSHONT<-1>/(HSHOYK<-1>))*
02     ((MSHONT/MSHOYK)/(MSHONT<-1>/MSHOYK<-1>))
C-
```


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```
F      END IF
C ... ISHONT    ALBERTA          ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 464 ISHONT=1000*ISHOYK*(1/(B+B*1000*(MSHOYK/MSHONT)))
C- B(01)= -3280.966     [  -1.11] B(02)=  1.653721     [   3.89]
C- RB2=0.64 DW=1.03 S.E.E.=  512.0448     AAPE=  4.12
C- 1973-1981
C-
S      IF ((JSHONT<-1> .LT. 0.0001) .OR. (JSHOYK<-1> .LT. 0.0001))
F     *THEN
C ... JSHONT    B.C.             ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 465 JSHONT=JSHOYK*(MSHONT/MSHOYK)
C-
F      ELSE
C ... JSHONT    B.C.             ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 465 JSHONT=JSHOYK*(JSHONT<-1>/(JSHOYK<-1>))*
02     ((MSHONT/MSHOYK)/(MSHONT<-1>/MSHOYK<-1>))
C-
F      END IF
S      IF ((TSHONT<-1> .LT. 0.0001) .OR. (TSHOYK<-1> .LT. 0.0001))
F     *THEN
C ... TSHONT    TERRITORIES      ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 466 TSHONT=TSHOYK*(MSHONT/MSHOYK)
C-
F      ELSE
C ... TSHONT    TERRITORIES      ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 466 TSHONT=TSHOYK*(TSHONT<-1>/(TSHOYK<-1>))*
02     ((MSHONT/MSHOYK)/(MSHONT<-1>/MSHOYK<-1>))
C-
F      END IF
S      I='ASHONT'-'ATSPNT'+1.0
S      J='ATSPNT'+I-1
S      CALL SHRAD4(S(I),C(I),SHONET,ADJ,11,E(J),X(1),J,0)
C ... SSHONT    B.C.+TER.        ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 467 SSHONT=JSHONT+TSHONT
C-
C ... MSHONT    CANADA           ACCOM+FOOD SERV.        I/O EMPLOYMENT
E 468 MSHONT=ASHONT+BSHONT+CSHONT+DSHONT+ESHONT+FSHONT+GSHONT+HSHONT+ISHONT+
02     SSHONT
C-
S      IF ((ASVBNT<-1> .LT. 0.0001) .OR. (ASVBYK<-1> .LT. 0.0001))
F     *THEN
C ... ASVBNT    NEWFOUNDLAND     BUSINESS SERV.          I/O EMPLOYMENT
E 469 ASVBNT=ASVBYK*(MSVBNT/MSVBYK)
C-
F      ELSE
C ... ASVBNT    NEWFOUNDLAND     BUSINESS SERV.          I/O EMPLOYMENT
E 469 ASVBNT=ASVBYK*(ASVBNT<-1>/(ASVBYK<-1>))*
02     ((MSVBNT/MSVBYK)/(MSVBNT<-1>/MSVBYK<-1>))
C-
F      END IF
S      IF ((BSVBNT<-1> .LT. 0.0001) .OR. (BSVBYK<-1> .LT. 0.0001))
F     *THEN
```


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```
C ... BSVBNT    P.E.I.          BUSINESS SERV.          I/O EMPLOYMENT
E 470 BSVBNT=BSVBYK*(MSVBNT/MSVBYK)
C-
F     ELSE
C ... BSVBNT    P.E.I.          BUSINESS SERV.          I/O EMPLOYMENT
E 470 BSVBNT=BSVBYK*(BSVBNT<-1>/(BSVBYK<-1>))*
O2    ((MSVBNT/MSVBYK)/(MSVBNT<-1>/MSVBYK<-1>))
C-
F     END IF
S     IF ((CSVBNT<-1> .LT. 0.0001) .OR. (CSVBYK<-1> .LT. 0.0001))
F    *THEN
C ... CSVBNT    NOVA SCOTIA     BUSINESS SERV.          I/O EMPLOYMENT
E 471 CSVBNT=CSVBYK*(MSVBNT/MSVBYK)
C-
F     ELSE
C ... CSVBNT    NOVA SCOTIA     BUSINESS SERV.          I/O EMPLOYMENT
E 471 CSVBNT=CSVBYK*(CSVBNT<-1>/(CSVBYK<-1>))*
O2    ((MSVBNT/MSVBYK)/(MSVBNT<-1>/MSVBYK<-1>))
C-
F     END IF
S     IF ((DSVBNT<-1> .LT. 0.0001) .OR. (DSVBYK<-1> .LT. 0.0001))
F    *THEN
C ... DSVBNT    NEW BRUNSWICK   BUSINESS SERV.          I/O EMPLOYMENT
E 472 DSVBNT=DSVBYK*(MSVBNT/MSVBYK)
C-
F     ELSE
C ... DSVBNT    NEW BRUNSWICK   BUSINESS SERV.          I/O EMPLOYMENT
E 472 DSVBNT=DSVBYK*(DSVBNT<-1>/(DSVBYK<-1>))*
O2    ((MSVBNT/MSVBYK)/(MSVBNT<-1>/MSVBYK<-1>))
C-
F     END IF
S     IF ((ESVBNT<-1> .LT. 0.0001) .OR. (ESVBYK<-1> .LT. 0.0001))
F    *THEN
C ... ESVBNT    QUEBEC          BUSINESS SERV.          I/O EMPLOYMENT
E 473 ESVBNT=ESVBYK*(MSVBNT/MSVBYK)
C-
F     ELSE
C ... ESVBNT    QUEBEC          BUSINESS SERV.          I/O EMPLOYMENT
E 473 ESVBNT=ESVBYK*(ESVBNT<-1>/(ESVBYK<-1>))*
O2    ((MSVBNT/MSVBYK)/(MSVBNT<-1>/MSVBYK<-1>))
C-
F     END IF
C ... FSVBNT    ONTARIO         BUSINESS SERV.          I/O EMPLOYMENT
E 474 FSVBNT=1000*FSVBYK*(1/(B+B*1000*(MSVBYK/MSVBNT)))
C- B(01)= -1336.643     [  -0.78] B(02)=  1.143969     [   6.24]
C- RB2=0.79 DW=0.81 S.E.E.=  388.2303     AAPE=  2.83
C- 1971-1981
C-
S     IF ((GSVBNT<-1> .LT. 0.0001) .OR. (GSVBYK<-1> .LT. 0.0001))
F    *THEN
C ... GSVBNT    MANITOBA        BUSINESS SERV.          I/O EMPLOYMENT
E 475 GSVBNT=GSVBYK*(MSVBNT/MSVBYK)
```


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```
C-
F      ELSE
C ... GSVBNT    MANITOBA          BUSINESS SERV.          I/O EMPLOYMENT
E 475 GSVBNT=GSVBYK*(GSVBNT<-1>/(GSVBYK<-1>))*
02     ((MSVBNT/MSVBYK)/(MSVBNT<-1>/MSVBYK<-1>))
C-
F      END IF
C ... HSVBNT    SASKATCHEWAN      BUSINESS SERV.          I/O EMPLOYMENT
E 476 HSVBNT=1000*HSVBYK*(1/(B+B*1000*(MSVBYK/MSVBNT)))
C- B(01)= -104.7244     [  -0.01] B(02)=  1.245359     [   1.63]
C- RB2=0.14 DW=2.39 S.E.E.=  1615.127      AAPE= 11.49
C- 1971-1981
C-
S      IF ((ISVBNT<-1> .LT. 0.0001) .OR. (ISVBYK<-1> .LT. 0.0001))
F     *THEN
C ... ISVBNT    ALBERTA           BUSINESS SERV.          I/O EMPLOYMENT
E 477 ISVBNT=ISVBYK*(MSVBNT/MSVBYK)
C-
F      ELSE
C ... ISVBNT    ALBERTA           BUSINESS SERV.          I/O EMPLOYMENT
E 477 ISVBNT=ISVBYK*(ISVBNT<-1>/(ISVBYK<-1>))*
02     ((MSVBNT/MSVBYK)/(MSVBNT<-1>/MSVBYK<-1>))
C-
F      END IF
S      IF ((JSVBNT<-1> .LT. 0.0001) .OR. (JSVBYK<-1> .LT. 0.0001))
F     *THEN
C ... JSVBNT    B.C.              BUSINESS SERV.          I/O EMPLOYMENT
E 478 JSVBNT=JSVBYK*(MSVBNT/MSVBYK)
C-
F      ELSE
C ... JSVBNT    B.C.              BUSINESS SERV.          I/O EMPLOYMENT
E 478 JSVBNT=JSVBYK*(JSVBNT<-1>/(JSVBYK<-1>))*
02     ((MSVBNT/MSVBYK)/(MSVBNT<-1>/MSVBYK<-1>))
C-
F      END IF
S      IF ((TSVBNT<-1> .LT. 0.0001) .OR. (TSVBYK<-1> .LT. 0.0001))
F     *THEN
C ... TSVBNT    TERRITORIES       BUSINESS SERV.          I/O EMPLOYMENT
E 479 TSVBNT=TSVBYK*(MSVBNT/MSVBYK)
C-
F      ELSE
C ... TSVBNT    TERRITORIES       BUSINESS SERV.          I/O EMPLOYMENT
E 479 TSVBNT=TSVBYK*(TSVBNT<-1>/(TSVBYK<-1>))*
02     ((MSVBNT/MSVBYK)/(MSVBNT<-1>/MSVBYK<-1>))
C-
F      END IF
S      I='ASVBNT'-'ATSPNT'+1.0
S      J='ATSPNT'+I-1
S      CALL SHRAD4(S(I),C(I),SVBNET,ADJ,11,E(J),X(1),J,0)
C ... SSVBNT    B.C.+TER.         BUSINESS SERV.          I/O EMPLOYMENT
E 480 SSVBNT=JSVBNT+TSVBNT
C-
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C ... MSVBNT    CANADA          BUSINESS SERV.          I/O EMPLOYMENT
E 481 MSVBNT=ASVBNT+BSVBNT+CSVBNT+DSVBNT+ESVBNT+FSVBNT+GSVBNT+HSVBNT+ISVBNT+
O2    SSVBNT
C-
S     IF ((ASVMNT<-1> .LT. 0.0001) .OR. (ADHOHT<-1> .LT. 0.0001))
F    *THEN
C ... ASVMNT    NEWFOUNDLAND    MISC. SERV.             I/O EMPLOYMENT
E 482 ASVMNT=ADHOHT*(MSVMNT/MDHOHT)
C-
F     ELSE
C ... ASVMNT    NEWFOUNDLAND    MISC. SERV.             I/O EMPLOYMENT
E 482 ASVMNT=ADHOHT*(ASVMNT<-1>/(ADHOHT<-1>))*
O2    ((MSVMNT/MDHOHT)/(MSVMNT<-1>/MDHOHT<-1>))
C-
F     END IF
S     IF ((BSVMNT<-1> .LT. 0.0001) .OR. (BDHOHT<-1> .LT. 0.0001))
F    *THEN
C ... BSVMNT    P.E.I.          MISC. SERV.             I/O EMPLOYMENT
E 483 BSVMNT=BDHOHT*(MSVMNT/MDHOHT)
C-
F     ELSE
C ... BSVMNT    P.E.I.          MISC. SERV.             I/O EMPLOYMENT
E 483 BSVMNT=BDHOHT*(BSVMNT<-1>/(BDHOHT<-1>))*
O2    ((MSVMNT/MDHOHT)/(MSVMNT<-1>/MDHOHT<-1>))
C-
F     END IF
C ... CSVMNT    NOVA SCOTIA     MISC. SERV.             I/O EMPLOYMENT
E 484 CSVMNT=1000*CDHOHT*(1/(B+B*1000*(MDHOHT/MSVMNT)))
C- B(01)=  3986.103     [   0.26] B(02)=  1.419795     [   4.65]
C- RB2=0.67 DW=2.44 S.E.E.=  6757.553     AAPE=  7.03
C- 1971-1981
C-
C ... DSVMNT    NEW BRUNSWICK   MISC. SERV.             I/O EMPLOYMENT
E 485 DSVMNT=1000*DDHOHT*(1/(B+B*1000*(MDHOHT/MSVMNT)))
C- B(01)= -11566.69     [  -0.62] B(02)=  1.682591     [   4.44]
C- RB2=0.65 DW=1.29 S.E.E.=  8373.639     AAPE=  8.48
C- 1971-1981
C-
S     IF ((ESVMNT<-1> .LT. 0.0001) .OR. (EDHOHT<-1> .LT. 0.0001))
F    *THEN
C ... ESVMNT    QUEBEC          MISC. SERV.             I/O EMPLOYMENT
E 486 ESVMNT=EDHOHT*(MSVMNT/MDHOHT)
C-
F     ELSE
C ... ESVMNT    QUEBEC          MISC. SERV.             I/O EMPLOYMENT
E 486 ESVMNT=EDHOHT*(ESVMNT<-1>/(EDHOHT<-1>))*
O2    ((MSVMNT/MDHOHT)/(MSVMNT<-1>/MDHOHT<-1>))
C-
F     END IF
C ... FSVMNT    ONTARIO         MISC. SERV.             I/O EMPLOYMENT
E 487 FSVMNT=1000*FDHOHT*(1/(B+B*1000*(MDHOHT/MSVMNT)))
C- B(01)= -2278.744     [  -0.69] B(02)=  1.010864     [  15.12]
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C- RB2=0.96 DW=1.43 S.E.E.=  1478.048     AAPE=  2.48
C- 1971-1981
C-
C ... GSVMNT    MANITOBA          MISC. SERV.              I/O EMPLOYMENT
E 488 GSVMNT=1000*GDHOHT*(1/(B+B*1000*(MDHOHT/MSVMNT)))
C- B(01)=  1670.452     [   0.14] B(02)=  1.187585     [   5.10]
C- RB2=0.71 DW=2.31 S.E.E.=  5149.518     AAPE=  7.02
C- 1971-1981
C-
C ... HSVMNT    SASKATCHEWAN      MISC. SERV.              I/O EMPLOYMENT
E 489 HSVMNT=1000*HDHOHT*(1/(B+B*1000*(MDHOHT/MSVMNT)))
C- B(01)=  1613.307     [   0.09] B(02)=  1.465562     [   4.10]
C- RB2=0.61 DW=2.11 S.E.E.=  7905.039     AAPE=  7.87
C- 1971-1981
C-
C ... ISVMNT    ALBERTA           MISC. SERV.              I/O EMPLOYMENT
E 490 ISVMNT=1000*IDHOHT*(1/(B+B*1000*(MDHOHT/MSVMNT)))
C- B(01)= -11207.69     [  -2.21] B(02)=  1.090719     [  10.67]
C- RB2=0.92 DW=2.54 S.E.E.=  2261.346     AAPE=  4.33
C- 1971-1981
C-
C ... JSVMNT    B.C.              MISC. SERV.              I/O EMPLOYMENT
E 491 JSVMNT=1000*JDHOHT*(1/(B+B*1000*(MDHOHT/MSVMNT)))
C- B(01)=  5027.466     [   2.04] B(02)= 0.7976877     [  16.09]
C- RB2=0.96 DW=1.25 S.E.E.=  1096.674     AAPE=  1.88
C- 1971-1981
C-
S     IF ((TSVMNT<-1> .LT. 0.0001) .OR. (TDHOHT<-1> .LT. 0.0001))
F    *THEN
C ... TSVMNT    TERRITORIES       MISC. SERV.              I/O EMPLOYMENT
E 492 TSVMNT=TDHOHT*(MSVMNT/MDHOHT)
C-
F     ELSE
C ... TSVMNT    TERRITORIES       MISC. SERV.              I/O EMPLOYMENT
E 492 TSVMNT=TDHOHT*(TSVMNT<-1>/(TDHOHT<-1>))*
02    ((MSVMNT/MDHOHT)/(MSVMNT<-1>/MDHOHT<-1>))
C-
F     END IF
S     I='ASVMNT'-'ATSPNT'+1.0
S     J='ATSPNT'+I-1
S     CALL SHRAD4(S(I),C(I),SVMNET,ADJ,11,E(J),X(1),J,0)
C ... SSVMNT    B.C.+TER.         MISC. SERV.              I/O EMPLOYMENT
E 493 SSVMNT=JSVMNT+TSVMNT
C-
C ... MSVMNT    CANADA            MISC. SERV.              I/O EMPLOYMENT
E 494 MSVMNT=ASVMNT+BSVMNT+CSVMNT+DSVMNT+ESVMNT+FSVMNT+GSVMNT+HSVMNT+ISVMNT+
02    SSVMNT
C-
S     IF ((AADFNT<-1> .LT. 0.0001) .OR. (AADFYK<-1> .LT. 0.0001))
F    *THEN
C ... AADFNT    NEWFOUNDLAND    FED.  ADMIN.               I/O EMPLOYMENT
E 534 AADFNT=AADFYK*(MADFNT/MADFYK)
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```
C-
F      ELSE
C ... AADFNT    NEWFOUNDLAND     FED.  ADMIN.            I/O EMPLOYMENT
E 534 AADFNT=AADFYK*(AADFNT<-1>/(AADFYK<-1>))*
O2     ((MADFNT/MADFYK)/(MADFNT<-1>/MADFYK<-1>))
C-
F      END IF
S      IF ((BADFNT<-1> .LT. 0.0001) .OR. (BADFYK<-1> .LT. 0.0001))
F     *THEN
C ... BADFNT    P.E.I.           FED.  ADMIN.            I/O EMPLOYMENT
E 535 BADFNT=BADFYK*(MADFNT/MADFYK)
C-
F      ELSE
C ... BADFNT    P.E.I.           FED.  ADMIN.            I/O EMPLOYMENT
E 535 BADFNT=BADFYK*(BADFNT<-1>/(BADFYK<-1>))*
O2     ((MADFNT/MADFYK)/(MADFNT<-1>/MADFYK<-1>))
C-
F      END IF
C ... CADFNT    NOVA SCOTIA      FED.  ADMIN.            I/O EMPLOYMENT
E 536 CADFNT=1000*CADFYK*(1/(B+B*1000*(MADFYK/MADFNT)))
C- B(01)=  177.8578     [   0.03] B(02)= 0.9666461     [   2.63]
C- RB2=0.37 DW=1.97 S.E.E.=  340.4784      AAPE=  1.73
C- 1971-1981
C-
S      IF ((DADFNT<-1> .LT. 0.0001) .OR. (DADFYK<-1> .LT. 0.0001))
F     *THEN
C ... DADFNT    NEW BRUNSWICK    FED.  ADMIN.            I/O EMPLOYMENT
E 537 DADFNT=DADFYK*(MADFNT/MADFYK)
C-
F      ELSE
C ... DADFNT    NEW BRUNSWICK    FED.  ADMIN.            I/O EMPLOYMENT
E 537 DADFNT=DADFYK*(DADFNT<-1>/(DADFYK<-1>))*
O2     ((MADFNT/MADFYK)/(MADFNT<-1>/MADFYK<-1>))
C-
F      END IF
S      IF ((EADFNT<-1> .LT. 0.0001) .OR. (EADFYK<-1> .LT. 0.0001))
F     *THEN
C ... EADFNT    QUEBEC           FED.  ADMIN.            I/O EMPLOYMENT
E 538 EADFNT=EADFYK*(MADFNT/MADFYK)
C-
F      ELSE
C ... EADFNT    QUEBEC           FED.  ADMIN.            I/O EMPLOYMENT
E 538 EADFNT=EADFYK*(EADFNT<-1>/(EADFYK<-1>))*
O2     ((MADFNT/MADFYK)/(MADFNT<-1>/MADFYK<-1>))
C-
F      END IF
C ... FADFNT    ONTARIO          FED.  ADMIN.            I/O EMPLOYMENT
E 539 FADFNT=1000*FADFYK*(1/(B+B*1000*(MADFYK/MADFNT)))
C- B(01)=  1294.591     [   0.37] B(02)= 0.9104661     [   3.58]
C- RB2=0.54 DW=0.75 S.E.E.=  235.3131      AAPE=  1.31
C- 1971-1981
C-
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C ... GADFNT    MANITOBA          FED.  ADMIN.          I/O EMPLOYMENT
E 540 GADFNT=1000*GADFYK*(1/(B+B*1000*(MADFYK/MADFNT)))
C- B(01)= -6269.865    [  -0.80] B(02)=  1.395394    [   2.49]
C- RB2=0.34 DW=2.16 S.E.E.=  518.2067     AAPE=  2.97
C- 1971-1981
C-
S     IF ((HADFNT<-1> .LT. 0.0001) .OR. (HADFYK<-1> .LT. 0.0001))
F    *THEN
C ... HADFNT    SASKATCHEWAN      FED.  ADMIN.          I/O EMPLOYMENT
E 541 HADFNT=HADFYK*(MADFNT/MADFYK)
C-
F     ELSE
C ... HADFNT    SASKATCHEWAN      FED.  ADMIN.          I/O EMPLOYMENT
E 541 HADFNT=HADFYK*(HADFNT<-1>/(HADFYK<-1>))*
O2    ((MADFNT/MADFYK)/(MADFNT<-1>/MADFYK<-1>))
C-
F     END IF
C ... IADFNT    ALBERTA           FED.  ADMIN.          I/O EMPLOYMENT
E 542 IADFNT=1000*IADFYK*(1/(B+B*1000*(MADFYK/MADFNT)))
C- B(01)= -2135.859    [  -0.30] B(02)=  1.143642    [   2.25]
C- RB2=0.29 DW=0.72 S.E.E.=  471.0212     AAPE=  2.67
C- 1971-1981
C-
C ... JADFNT    B.C.              FED.  ADMIN.          I/O EMPLOYMENT
E 543 JADFNT=1000*JADFYK*(1/(B+B*1000*(MADFYK/MADFNT)))
C- B(01)= -460.5135    [  -0.11] B(02)=  1.021204    [   3.37]
C- RB2=0.51 DW=0.93 S.E.E.=  280.6118     AAPE=  1.51
C- 1971-1981
C-
S     IF ((TADFNT<-1> .LT. 0.0001) .OR. (TADFYK<-1> .LT. 0.0001))
F    *THEN
C ... TADFNT    TERRITORIES       FED.  ADMIN.          I/O EMPLOYMENT
E 544 TADFNT=TADFYK*(MADFNT/MADFYK)
C-
F     ELSE
C ... TADFNT    TERRITORIES       FED.  ADMIN.          I/O EMPLOYMENT
E 544 TADFNT=TADFYK*(TADFNT<-1>/(TADFYK<-1>))*
O2    ((MADFNT/MADFYK)/(MADFNT<-1>/MADFYK<-1>))
C-
F     END IF
S     I='AADFNT'-'ATSPNT'+1.0
S     J='ATSPNT'+I-1
S     CALL SHRAD4(S(I),C(I),ADFNET,ADJ,11,E(J),X(I),J,0)
C ... SADFNT    B.C.+TER.         FED.  ADMIN.          I/O EMPLOYMENT
E 545 SADFNT=JADFNT+TADFNT
C-
C ... MADFNT    CANADA            FED.  ADMIN.          I/O EMPLOYMENT
E 546 MADFNT=AADFNT+BADFNT+CADFNT+DADFNT+EADFNT+FADFNT+GADFNT+HADFNT+IADFNT+
O2    SADFNT
C-
S     IF ((AADPNT<-1> .LT. 0.0001) .OR. (AADPYK<-1> .LT. 0.0001))
F    *THEN
```


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```
C ... AADPNT    NEWFOUNDLAND    PROV.  ADMIN.          I/O EMPLOYMENT
E 547 AADPNT=AADPYK*(MADPNT/MADPYK)
C-
F     ELSE
C ... AADPNT    NEWFOUNDLAND    PROV.  ADMIN.          I/O EMPLOYMENT
E 547 AADPNT=AADPYK*(AADPNT<-1>/(AADPYK<-1>))*
02    ((MADPNT/MADPYK)/(MADPNT<-1>/MADPYK<-1>))
C-
F     END IF
S     IF ((BADPNT<-1> .LT. 0.0001) .OR. (BADPYK<-1> .LT. 0.0001))
F    *THEN
C ... BADPNT    P.E.I.          PROV.  ADMIN.          I/O EMPLOYMENT
E 548 BADPNT=BADPYK*(MADPNT/MADPYK)
C-
F     ELSE
C ... BADPNT    P.E.I.          PROV.  ADMIN.          I/O EMPLOYMENT
E 548 BADPNT=BADPYK*(BADPNT<-1>/(BADPYK<-1>))*
02    ((MADPNT/MADPYK)/(MADPNT<-1>/MADPYK<-1>))
C-
F     END IF
S     IF ((CADPNT<-1> .LT. 0.0001) .OR. (CADPYK<-1> .LT. 0.0001))
F    *THEN
C ... CADPNT    NOVA SCOTIA     PROV.  ADMIN.          I/O EMPLOYMENT
E 549 CADPNT=CADPYK*(MADPNT/MADPYK)
C-
F     ELSE
C ... CADPNT    NOVA SCOTIA     PROV.  ADMIN.          I/O EMPLOYMENT
E 549 CADPNT=CADPYK*(CADPNT<-1>/(CADPYK<-1>))*
02    ((MADPNT/MADPYK)/(MADPNT<-1>/MADPYK<-1>))
C-
F     END IF
S     IF ((DADPNT<-1> .LT. 0.0001) .OR. (DADPYK<-1> .LT. 0.0001))
F    *THEN
C ... DADPNT    NEW BRUNSWICK   PROV.  ADMIN.          I/O EMPLOYMENT
E 550 DADPNT=DADPYK*(MADPNT/MADPYK)
C-
F     ELSE
C ... DADPNT    NEW BRUNSWICK   PROV.  ADMIN.          I/O EMPLOYMENT
E 550 DADPNT=DADPYK*(DADPNT<-1>/(DADPYK<-1>))*
02    ((MADPNT/MADPYK)/(MADPNT<-1>/MADPYK<-1>))
C-
F     END IF
C ... EADPNT    QUEBEC          PROV.  ADMIN.          I/O EMPLOYMENT
E 551 EADPNT=1000*EADPYK*(1/(B+B*1000*(MADPYK/MADPNT)))
C- B(01)= -100.6342    [  -0.14] B(02)=  1.004705    [  13.95]
C- RB2=0.95 DW=1.98 S.E.E.=  73.28082     AAPE=  0.54
C- 1971-1981
C-
C ... FADPNT    ONTARIO         PROV.  ADMIN.          I/O EMPLOYMENT
E 552 FADPNT=1000*FADPYK*(1/(B+B*1000*(MADPYK/MADPNT)))
C- B(01)= -2697.075    [  -2.06] B(02)=  1.253995    [   9.79]
C- RB2=0.90 DW=1.84 S.E.E.=  130.2481     AAPE=  0.88
```


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```
C- 1971-1981
C-
C ... GADPNT    MANITOBA          PROV.  ADMIN.          I/O EMPLOYMENT
E 553 GADPNT=1000*GADPYK*(1/(B+B*1000*(MADPYK/MADPNT)))
C- B(01)=  1397.657     [   0.38] B(02)= 0.8786120     [   2.44]
C- RB2=0.33 DW=1.31 S.E.E.=  366.3094      AAPE=  2.53
C- 1971-1981
C-
S     IF ((HADPNT<-1> .LT. 0.0001) .OR. (HADPYK<-1> .LT. 0.0001))
F    *THEN
C ... HADPNT    SASKATCHEWAN      PROV.  ADMIN.          I/O EMPLOYMENT
E 554 HADPNT=HADPYK*(MADPNT/MADPYK)
C-
F     ELSE
C ... HADPNT    SASKATCHEWAN      PROV.  ADMIN.          I/O EMPLOYMENT
E 554 HADPNT=HADPYK*(HADPNT<-1>/(HADPYK<-1>))*
O2    ((MADPNT/MADPYK)/(MADPNT<-1>/MADPYK<-1>))
C-
F     END IF
C ... IADPNT    ALBERTA           PROV.  ADMIN.          I/O EMPLOYMENT
E 555 IADPNT=1000*IADPYK*(1/(B+B*1000*(MADPYK/MADPNT)))
C- B(01)= -3900.[illegible]     [  -3.03] B(02)=  1.356590     [  10.80]
C- RB2=0.92 DW=2.43 S.E.E.=  127.7588      AAPE=  1.02
C- 1971-1981
C-
S     IF ((JADPNT<-1> .LT. 0.0001) .OR. (JADPYK<-1> .LT. 0.0001))
F    *THEN
C ... JADPNT    B.C.              PROV.  ADMIN.          I/O EMPLOYMENT
E 556 JADPNT=JADPYK*(MADPNT/MADPYK)
C-
F     ELSE
C ... JADPNT    B.C.              PROV.  ADMIN.          I/O EMPLOYMENT
E 556 JADPNT=JADPYK*(JADPNT<-1>/(JADPYK<-1>))*
O2    ((MADPNT/MADPYK)/(MADPNT<-1>/MADPYK<-1>))
C-
F     END IF
S     IF ((TADPNT<-1> .LT. 0.0001) .OR. (TADPYK<-1> .LT. 0.0001))
F    *THEN
C ... TADPNT    TERRITORIES       PROV.  ADMIN.          I/O EMPLOYMENT
E 557 TADPNT=TADPYK*(MADPNT/MADPYK)
C-
F     ELSE
C ... TADPNT    TERRITORIES       PROV.  ADMIN.          I/O EMPLOYMENT
E 557 TADPNT=TADPYK*(TADPNT<-1>/(TADPYK<-1>))*
O2    ((MADPNT/MADPYK)/(MADPNT<-1>/MADPYK<-1>))
C-
F     END IF
S     I='AADPNT'-'ATSPNT'+1.0
S     J='ATSPNT'+I-1
S     CALL SHRAD4(S(I),C(I),ADPNET,ADJ,11,E(J),X(1),J,0)
C ... SADPNT    B.C.+TER.         PROV.  ADMIN.          I/O EMPLOYMENT
E 558 SADPNT=JADPNT+TADPNT
```


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```
C-
C ... MADPNT    CANADA          PROV.  ADMIN.          I/O EMPLOYMENT
E 559 MADPNT=AADPNT+BADPNT+CADPNT+DADPNT+EADPNT+FADPNT+GADPNT+HADPNT+IADPNT+
02    SADPNT
C-
S     IF ((AADMNT<-1> .LT. 0.0001) .OR. (AADMYK<-1> .LT. 0.0001))
F    *THEN
C ... AADMNT    NEWFOUNDLAND    MUN.  ADMIN.          I/O EMPLOYMENT
E 560 AADMNT=AADMYK*(MADMNT/MADMYK)
C-
F     ELSE
C ... AADMNT    NEWFOUNDLAND    MUN.  ADMIN.          I/O EMPLOYMENT
E 560 AADMNT=AADMYK*(AADMNT<-1>/(AADMYK<-1>))*
02    ((MADMNT/MADMYK)/(MADMNT<-1>/MADMYK<-1>))
C-
F     END IF
S     IF ((BADMNT<-1> .LT. 0.0001) .OR. (BADMYK<-1> .LT. 0.0001))
F    *THEN
C ... BADMNT    P.E.I.          MUN.  ADMIN.          I/O EMPLOYMENT
E 561 BADMNT=BADMYK*(MADMNT/MADMYK)
C-
F     ELSE
C ... BADMNT    P.E.I.          MUN.  ADMIN.          I/O EMPLOYMENT
E 561 BADMNT=BADMYK*(BADMNT<-1>/(BADMYK<-1>))*
02    ((MADMNT/MADMYK)/(MADMNT<-1>/MADMYK<-1>))
C-
F     END IF
S     IF ((CADMNT<-1> .LT. 0.0001) .OR. (CADMYK<-1> .LT. 0.0001))
F    *THEN
C ... CADMNT    NOVA SCOTIA     MUN.  ADMIN.          I/O EMPLOYMENT
E 562 CADMNT=CADMYK*(MADMNT/MADMYK)
C-
F     ELSE
C ... CADMNT    NOVA SCOTIA     MUN.  ADMIN.          I/O EMPLOYMENT
E 562 CADMNT=CADMYK*(CADMNT<-1>/(CADMYK<-1>))*
02    ((MADMNT/MADMYK)/(MADMNT<-1>/MADMYK<-1>))
C-
F     END IF
S     IF ((DADMNT<-1> .LT. 0.0001) .OR. (DADMYK<-1> .LT. 0.0001))
F    *THEN
C ... DADMNT    NEW BRUNSWICK   MUN.  ADMIN.          I/O EMPLOYMENT
E 563 DADMNT=DADMYK*(MADMNT/MADMYK)
C-
F     ELSE
C ... DADMNT    NEW BRUNSWICK   MUN.  ADMIN.          I/O EMPLOYMENT
E 563 DADMNT=DADMYK*(DADMNT<-1>/(DADMYK<-1>))*
02    ((MADMNT/MADMYK)/(MADMNT<-1>/MADMYK<-1>))
C-
F     END IF
S     IF ((EADMNT<-1> .LT. 0.0001) .OR. (EADMYK<-1> .LT. 0.0001))
F    *THEN
C ... EADMNT    QUEBEC          MUN.  ADMIN.          I/O EMPLOYMENT
```


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```
E 564 EADMNT=EADMYK*(MADMNT/MADMYK)
C-
F     ELSE
C ... EADMNT    QUEBEC          MUN.  ADMIN.          I/O EMPLOYMENT
E 564 EADMNT=EADMYK*(EADMNT<-1>/(EADMYK<-1>))*
02    ((MADMNT/MADMYK)/(MADMNT<-1>/MADMYK<-1>))
C-
F     END IF
C ... FADMNT    ONTARIO         MUN.  ADMIN.          I/O EMPLOYMENT
E 565 FADMNT=1000*FADMYK*(1/(B+B*1000*(MADMYK/MADMNT)))
C- B(01)=  1055.246    [   2.36] B(02)= 0.8817385    [  16.59]
C- RB2=0.96 DW=1.58 S.E.E.=  44.12423     AAPE=  0.44
C- 1971-1981
C-
S     IF ((GADMNT<-1> .LT. 0.0001) .OR. (GADMYK<-1> .LT. 0.0001))
F    *THEN
C ... GADMNT    MANITOBA        MUN.  ADMIN.          I/O EMPLOYMENT
E 566 GADMNT=GADMYK*(MADMNT/MADMYK)
C-
F     ELSE
C ... GADMNT    MANITOBA        MUN.  ADMIN.          I/O EMPLOYMENT
E 566 GADMNT=GADMYK*(GADMNT<-1>/(GADMYK<-1>))*
02    ((MADMNT/MADMYK)/(MADMNT<-1>/MADMYK<-1>))
C-
F     END IF
C ... HADMNT    SASKATCHEWAN    MUN.  ADMIN.          I/O EMPLOYMENT
E 567 HADMNT=1000*HADMYK*(1/(B+B*1000*(MADMYK/MADMNT)))
C- B(01)= -2954.433    [  -0.77] B(02)=  1.375175    [   3.00]
C- RB2=0.45 DW=1.64 S.E.E.=  380.0256     AAPE=  3.33
C- 1971-1981
C-
S     IF ((IADMNT<-1> .LT. 0.0001) .OR. (IADMYK<-1> .LT. 0.0001))
F    *THEN
C ... IADMNT    ALBERTA         MUN.  ADMIN.          I/O EMPLOYMENT
E 568 IADMNT=IADMYK*(MADMNT/MADMYK)
C-
F     ELSE
C ... IADMNT    ALBERTA         MUN.  ADMIN.          I/O EMPLOYMENT
E 568 IADMNT=IADMYK*(IADMNT<-1>/(IADMYK<-1>))*
02    ((MADMNT/MADMYK)/(MADMNT<-1>/MADMYK<-1>))
C-
F     END IF
C ... JADMNT    B.C.            MUN.  ADMIN.          I/O EMPLOYMENT
E 569 JADMNT=1000*JADMYK*(1/(B+B*1000*(MADMYK/MADMNT)))
C- B(01)=  1568.569    [   0.93] B(02)= 0.8216721    [   4.10]
C- RB2=0.61 DW=2.14 S.E.E.=  166.5965     AAPE=  1.61
C- 1971-1981
C-
S     IF ((TADMNT<-1> .LT. 0.0001) .OR. (TADMYK<-1> .LT. 0.0001))
F    *THEN
C ... TADMNT    TERRITORIES     MUN.  ADMIN.          I/O EMPLOYMENT
E 570 TADMNT=TADMYK*(MADMNT/MADMYK)
```


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```
C-
F       ELSE
C ...   TADMNT    TERRITORIES      MUN.  ADMIN.            I/O EMPLOYMENT
E 570   TADMNT=TADMYK*(TADMNT<-1>/(TADMYK<-1>))*
02      ((MADMNT/MADMYK)/(MADMNT<-1>/MADMYK<-1>))
C-
F       END IF
S       I='AADMNT'-'ATSPNT'+1.0
S       J='ATSPNT'+I-1
S       CALL SHRAD4(S(I),C(I),ADMNET,ADJ,11,E(J),X(I),J,0)
C ...   SADMNT    B.C.+TER.        MUN.  ADMIN.            I/O EMPLOYMENT
E 571   SADMNT=JADMNT+TADMNT
C-
C ...   MADMNT    CANADA           MUN.  ADMIN.            I/O EMPLOYMENT
E 572   MADMNT=AADMNT+BADMNT+CADMNT+DADMNT+EADMNT+FADMNT+GADMNT+HADMNT+IADMNT+
02      SADMNT
C-
F1000 CONTINUE
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